

Product Datasheet

S100A7/Psoriasin Antibody (47C1068) - BSA Free NB100-56559SS

Unit Size: 0.025 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-56559SS

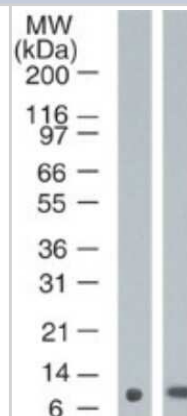
S100A7/Psoriasin Antibody (47C1068) - BSA Free

Product Information	
Unit Size	0.025 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	47C1068
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	6278
Gene Symbol	S100A7
Species	Human, Mouse
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:25622979).
Immunogen	This antibody was developed against recombinant psoriasin/HID-5 protein.
Product Application Details	
Applications	Western Blot, Simple Western, Electron Microscopy, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1-3 ug/ml, Simple Western 1:500, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation reported in scientific literature (PMID 26225121), Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Electron Microscopy reported in scientific literature (PMID 26225121), Flow (Intracellular)
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in MCF-7 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:500, apparent MW was 14 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.



Images

Western Blot: S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - Analysis using Azide Free version of NB100-56559. Psoriasin in A) MCF10A and B) MCF7 cell lysate using psoriasin antibody at 1 ug/mL.



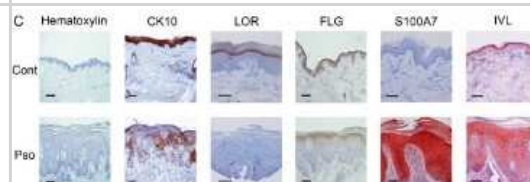
Immunohistochemistry: S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - Activities of proinflammatory cytokines on the differentiation of Reconstituted Human Epidermis. RHE have been cultured for 10 days at the air-water interface using an appropriate differentiation medium and then with or without recombinant IL-1alpha, IL-17A, IL-22, OSM or TN alpha alone or in combination during 72 h for immunohistological analysis. RHE were fixed, embedded in paraffin and 4 um vertical sections were stained with Hematoxylin and Eosin (HE) or with anti-CK10, anti-LOR, anti-FLG, anti-IVL or anti-S100A7 mAbs. Results are from one experiment representative of two. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0101937>), licensed under a CC-BY license.



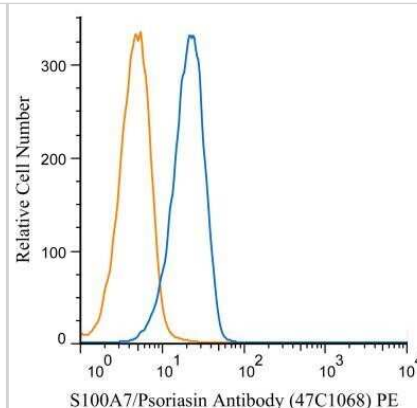
Immunocytochemistry/Immunofluorescence: S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - S100A7/psoriasin detection was performed on (A) untreated and (B) LPS-treated (100 ng/mL, 21 hrs) HOPE-fixed NCI-H727 cells using the monoclonal Psoriasin/HID5/S100A7 antibody (NB100-56559). (C) Positive control is shown by the expression of the nuclear Ki67 antigen with the MIB-1 (2 ug/mL) antibody. (D) Negative control was included omitting the primary antibody.



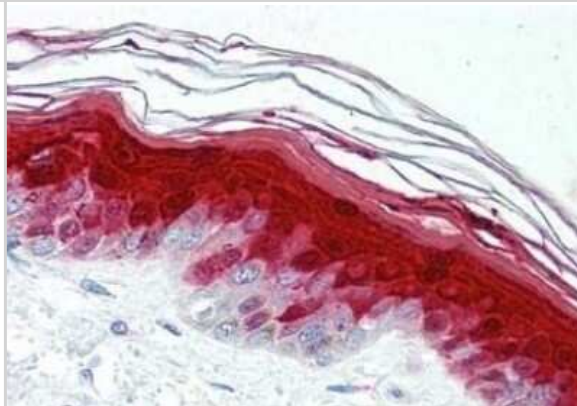
Immunohistochemistry: S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - Inhibition of KDM expression in vivo. Skin biopsies from normal control skin (Cont) or lesional psoriatic skin (Pso) were collected. Skin sections were stained with Hematoxylin and immunodetection of cytokeratin 10, loricrin, filaggrin, involucrin and S100A7 was performed. Scale bar 100 um. Results are from one experiment representative of three. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0101937>), licensed under a CC-BY license.



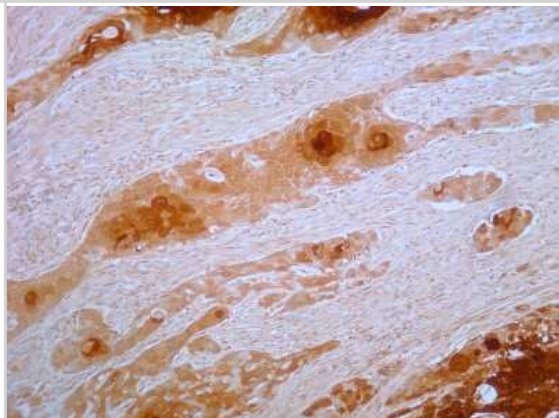
Flow (Intracellular): S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - An intracellular stain was performed on Jurkat cells with S100A7/Psoriasin antibody (47C1068) NBP2-24911PE (blue) and a matched isotype control NBP2-27287PE (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to phycoerythrin.. Using the PE format of this antibody.



Immunohistochemistry-Paraffin: S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - Staining of human skin. FFPE tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/mL.



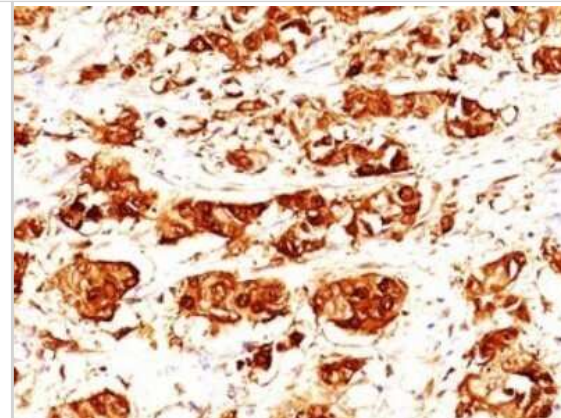
Immunohistochemistry-Paraffin: S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - Tissue section of human esophageal squamous cell carcinoma (SCC) using 5 ug/mL concentration of Psoriasin/S100A7 antibody (clone 47C1068). Diffused to granular cytoplasmic immunostaining was observed all over the tissue section with highest expression levels in the areas with cancer cells especially in the developing squamous keratin pearls.



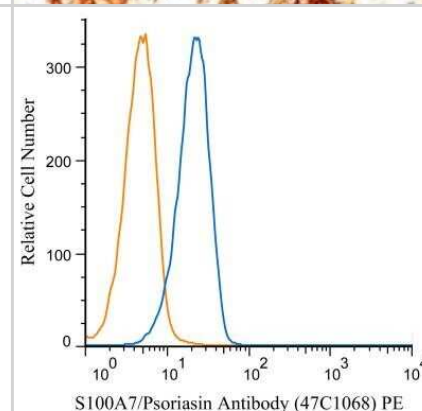
Immunohistochemistry-Paraffin: S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - Analysis of FFPE tissue section of human lymph node cancer using 5 ug/mL concentration of Psoriasin/S100A7 antibody (clone 47C1068). Very strong cytoplasmic immunopositivity of Psoriasin/S100A7 protein was observed in the cancer cells.



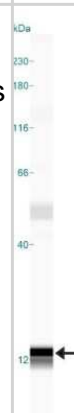
Immunohistochemistry-Paraffin: S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - Human breast tissue stained with psoriasin antibody at 1:200 using peroxidase-conjugate and DAB chromogen. Antigen retrieval with citrate buffer, pH 6.



Flow (Intracellular): S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - An intracellular stain was performed on Jurkat cells with S100A7/Psoriasin antibody (47C1068) NBP2-24911PE (blue) and a matched isotype control NBP2-27287PE (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to phycoerythrin.



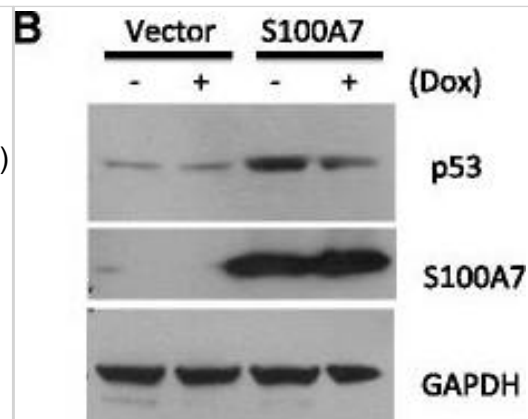
Simple Western: S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - Image shows a specific band for S100A7/Psoriasin in 0.5 mg/mL of MCF-7 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



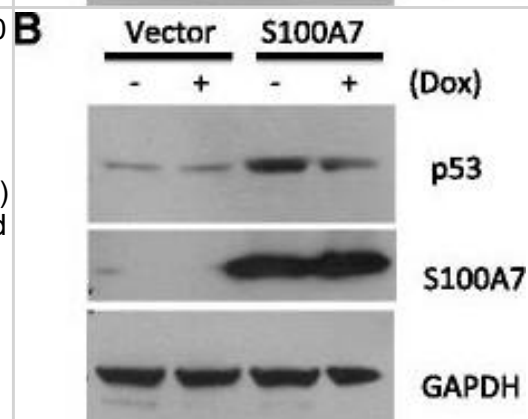
Simple Western: S100A7/Psoriasin Antibody (47C1068) [NB100-56559] - Analysis using Azide Free version of NB100-56559. Image shows a specific band for Psoriasin/S100A7 in 0.05 mg/mL of MCF-7 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



S100A7 activated p53 related anti-proliferative pathways. (A) Log2 fold change of mRNA expression of p53 pathway factors after S100A7 overexpression. (B) WB of p53 and S100A7 in MCF7-p53-CKD transfected with S100A7 or vector control. p53 shRNA transcription and p53 knockdown in MCF7-p53-CKD was induced by Doxycyclin (Dox). (C) S100A7 activated p53, ATR, chk-1, chk-2 in MCF7 cells.



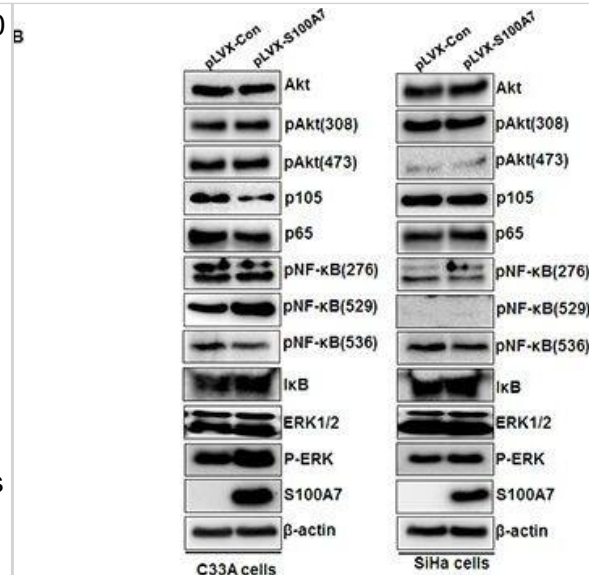
Western Blot: S100A7/Psoriasin Antibody (47C1068) - BSA Free [NB100-56559] - S100A7 activated p53 related anti-proliferative pathways. (A) Log2 fold change of mRNA expression of p53 pathway factors after S100A7 overexpression. (B) WB of p53 & S100A7 in MCF7-p53-CKD transfected with S100A7 or vector control. p53 shRNA transcription & p53 knockdown in MCF7-p53-CKD was induced by Doxycyclin (Dox). (C) S100A7 activated p53, ATR, chk-1, chk-2 in MCF7 cells. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/25622979>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: S100A7/Psoriasin Antibody (47C1068) - BSA Free [NB100-56559] - S100A7 induces EMT in cervical cancer cells Western Blot showed the protein level of epithelial marker E-cadherin & mesenchymal markers (N-Cadherin, Vimentin, Fibronectin) & EMT transcription factors Snail & Slug after overexpression of S100A7 in C33A cells A. & SiHa cells B. β -actin is used as a loading control. Image collected & cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.15329>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: S100A7/Psoriasin Antibody (47C1068) - BSA Free [NB100-56559] - S100A7 interacts with RAGE, stimulates ERK pathway & RAGE mediates S100A7-induced migration & invasion in C33A & SiHa cells. HEK293 cells were transiently co-expressed with pcDNA3-Flag & pcDNA3-Flag-RAGE with pcDNA3-myc-S100A7. Cell extracts were immunoprecipitated separately with specific antibody against Flag, & the associated Flag-RAGE & myc-S100A7 were examined by Western blotting using tagged antibodies, respectively. B. S100A7-expressing cells were found to have higher levels of phospho-ERK (without any change in total ERK levels). In comparison, the levels of phospho-Akt & phospho-NF- κ B had no obvious change. C. qRT-PCR verification of RAGE knockdown by two independent siRNAs in C33A & SiHa cells. D&E. RAGE knockdown suppressed migration & invasion in S100A7-overexpressed C33A & SiHa cells & their corresponding control cells. The stained cells were manually counted from 4 randomly selected fields & normalized with cell proliferation [2-sided t test; * $P < 0.05$; ** $P < 0.01$]. Representative image & quantitative results of cell migration & invasion were shown (D. C33A cells; E. SiHa cells; $\times 10$, bars: 100 μ m). Image collected & cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.15329>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

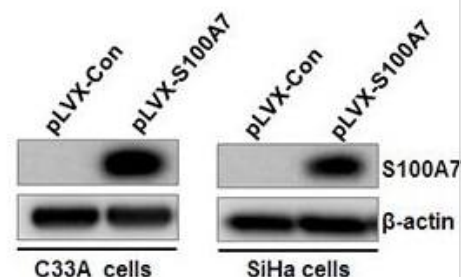


Western Blot: S100A7/Psoriasin Antibody (47C1068) - BSA Free [NB100-56559] - S100A7 is secreted & acts as a chemotactic factor of cell migration & invasion. Cells were cultured in serum-free medium for 2 days, then the medium was collected, fractionated, followed by Western Blot analysis. B&C. Transwell migration & Matrigel invasion assays were performed in C33A & SiHa cells. Cell suspension was placed into the upper chamber in 0.1 ml of DMEM serum-free medium, & conditioned medium from S100A7-overexpressed C33A & SiHa cells & their corresponding control cells was placed in the lower chamber as a chemoattractant. The stained cells were manually counted from 4 randomly selected fields & normalized with cell proliferation [2-sided t test; * $P < 0.05$; *** $P < 0.001$]. Representative image & quantitative results of cell migration & invasion were shown (B. C33A cells; C. SiHa cells; $\times 10$, bars: 100 μ m). Image collected & cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.15329>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: S100A7/Psoriasin Antibody (47C1068) - BSA Free [NB100-56559] - S100A7 promotes cervical cancer cell migration & invasion A&B. Establishment of stable cell lines of ectopic expression of S100A7. C33A & SiHa cells were infected with pLVX-Con & pLVX-S100A7 lentivirus, stable cells were established by Geneticin (G418) selection for about 2 weeks. Cells were harvested, S100A7 expression was detected by qRT-PCR (A: [mean (n=2) \pm SD; 2-sided t test; ** P<0.01, normalized to β -actin]) & Western Blot. C&D. Transwell migration & Matrigel invasion assays were performed in S100A7-overexpressed cells & their corresponding control cells. The stained cells were manually counted from 4 randomly selected fields & normalized with cell proliferation [2-sided t test; **P < 0.01]. Representative image & quantitative results of cell migration & invasion were shown (C. C33A cells; D. SiHa cells; $\times 10$, bars:100 μ m). E. The effect of S100A7 on cell migration was examined in wound-healing assay. Confluent cells were scratched & photographed at time 0h & 48h (Left panel. C33A cells; Right panel. SiHa cells. $\times 10$, bars:100 μ m). Image collected & cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.15329>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

B



Publications

Lundquist H, Andersson H, Chew MS et al. The Olfactomedin-4-Defined Human Neutrophil Subsets Differ in Proteomic Profile in Healthy Individuals and Patients with Septic Shock *Journal of innate immunity* 2022-11-30 [PMID: 36450268] (ICC/IF, Human)

Todorovic, McDonald HA, Hoover P et al. Cytokine induced 3-D organotypic psoriasis skin model demonstrates distinct roles for NF-kappa B and JAK pathways in disease pathophysiology *Experimental dermatology* 2022-02-25 [PMID: 35213752] (IF/IHC)

Doebar S C, Sieuwerts A M et al. Gene Expression Differences between Ductal Carcinoma in Situ with and without Progression to Invasive Breast Cancer. *Am J Pathol* 2017-01-07 [PMID: 28634007] (IF/IHC, Human)

Zhao H, Wilkie T, Deol Y et al. miR-29b defines the pro-/anti-proliferative effects of S100A7 in breast cancer *Mol. Cancer* 2015-01-27 [PMID: 25622979] (IF/IHC, Mouse)

Bhatt T, Bhosale A, Bajantri B et al. Sustained Secretion of the Antimicrobial Peptide S100A7 Is Dependent on the Downregulation of Caspase-8 *Cell Rep* 2019-11-26 [PMID: 31775025] (IHC-P, Human)

Li L, Cui Y, Ye L et al. Psoriasin overexpression confers drug resistance to cisplatin by activating ERK in gastric cancer. *Int. J. Oncol.* 2018-06-26 [PMID: 29956751] (IF/IHC, Human)

Garcia M, Morello E, Garnier J et al. *Pseudomonas aeruginosa* flagellum is critical for invasion, cutaneous persistence and induction of inflammatory response of skin epidermis *Virulence* 2018-08-03 [PMID: 30070169] (IHC-P, Human)

Bertelsen T, Iversen L, Johansen C. The human IL-17A/F heterodimer regulates psoriasis-associated genes through Ikbz. *Exp. Dermatol.* 2018-06-25 [PMID: 29938836] (WB, Human)

Rosignoli C, Thibaut de Menonville S, Orfila D et al. A topical treatment containing heat-treated *Lactobacillus johnsonii* NCC 533 reduces *Staphylococcus aureus* adhesion and induces antimicrobial peptide expression in an in vitro reconstructed human epidermis model. *Exp. Dermatol.* 2018-01-30 [PMID: 29380443] (Human)

Bianco K, Gormley M, Farrell J et al. Placental transcriptomes in the common aneuploidies reveal critical regions on the trisomic chromosomes and genome-wide effects *Prenat. Diagn.* [PMID: 27328057] (ICC/IF, IF/IHC, WB, Human)

Details:

Citation using the Azide Free form of this antibody.

Tian T, Li X, Hua Z et al. S100A7 promotes the migration, invasion and metastasis of human cervical cancer cells through epithelial-mesenchymal transition. *Oncotarget* 2017-04-11 [PMID: 28212564] (IHC-P, Human)

Bertelsen T, Ljungberg C, Kjellerup RB et al. IL-17F regulates psoriasis-associated genes through Ikbz. *Exp. Dermatol.* 2016-08-30 [PMID: 27576147]

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Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-
techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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