

Product Datasheet

SIRT4 Antibody NB100-1406

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB100-1406**SIRT4 Antibody**

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

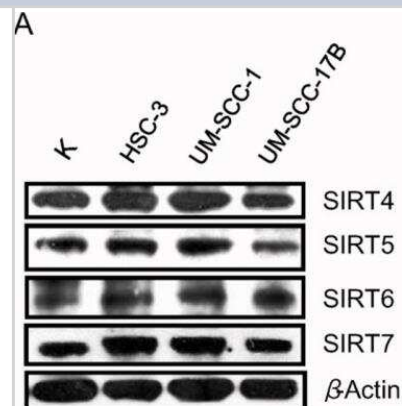
Product Description	
Host	Goat
Gene ID	23409
Gene Symbol	SIRT4
Species	Human
Immunogen	Peptide with sequence SRCGELLPLIDPC corresponding to C-Terminus according to NP_036372.1.

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 1 - 3 ug/mL, Immunohistochemistry 2 - 3 ug/mL, Immunohistochemistry-Paraffin 2 - 3 ug/mL, Peptide ELISA Detection limit 1:3200
Application Notes	WB: Approx. 37 kDa band observed in human kidney and U937 lysates (calculated MW of 35.2 kDa band according to NP_036372.1). In transfected HEK293 transiently expressing SIRT4 a band of approx. 38 kDa is observed. This band is not observed in the non-transfected HEK293. IHC-P: Human pancreas shows staining of the islets of langerhans. IHC: In paraffin embedded Skeletal Muscle shows spotty staining of striated fibres in longitudinal section.

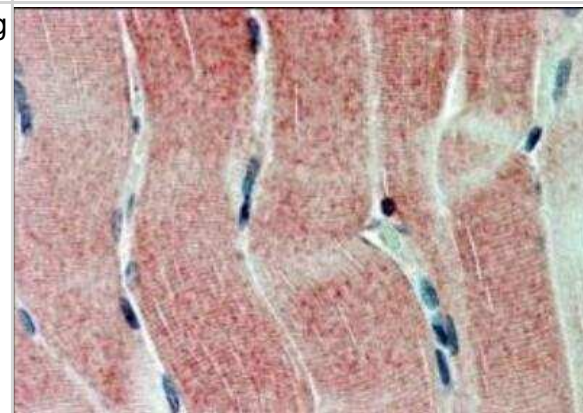


Images

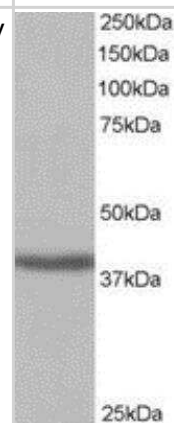
Western Blot: SIRT4 Antibody [NB100-1406] - Immunoblots reveal the levels of sirtuins (SIRT4-7) in the OSCC cell lines HSC-3, UM-SCC-1, and UM-SCC-17B and in normal human oral keratinocytes (K). B-Actin served as loading control. Antibodies include SIRT4 (NB100-1406), SIRT5 (NB100-56372), and SIRT7 (NB100-56364). Image collected and cropped by CiteAb from the following publication (doi.org/10.1002/cncr.25676) licensed under a CC-BY license.



Immunohistochemistry-Paraffin: SIRT4 Antibody [NB100-1406] - Staining of paraffin embedded Human Skeletal Muscle. Antibody at 2.5 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blot: SIRT4 Antibody [NB100-1406] - Staining of Human Kidney lysate (35 ug protein in RIPA buffer). Antibody at 1 ug/mL. Primary incubation was 1 hour. Detected by chemiluminescence.



Publications

Baeken MW, Schwarz M, Kern A Et al. The selective degradation of sirtuins via macroautophagy in the MPP+ model of Parkinson's disease is promoted by conserved oxidation sites Cell death discovery 2021-10-12 [PMID: 34642296] (WB, ICC/IF, Human)

Yuan H, He M, Cheng F et al. Tenovin-6 inhibits proliferation and survival of diffuse large B-cell lymphoma cells by blocking autophagy. Oncotarget. 2017-02-28 [PMID: 28118604] (Human)

Frye RA. Characterization of five human cDNAs with homology to the yeast SIR2 gene: Sir2-like proteins (sirtuins) metabolize NAD and may have protein ADP-ribosyltransferase activity. Biochem Biophys Res Commun 1999-06-24 [PMID: 10381378]

Benavente CA, Schnell SA, Jacobson EL Effects of niacin restriction on sirtuin and PARP responses to photodamage in human skin. PLoS One. 2012-01-01 [PMID: 22860104] (WB, Human)

Alhazzazi TY, Kamarajan P, Joo N et al. Sirtuin-3 (SIRT3), a novel potential therapeutic target for oral cancer. Cancer. 2011-04-15 [PMID: 21472714] (WB, Human)

Details:

WB: SIRT4 (IMG-3580), SIRT5 (IMG-479), SIRT7 (IMG-425). Oral squamous cell carcinoma; HSC-3, UM-SCC-1, UM-SCC-17B, and normal human oral keratinocytes (k), Fig 1A.





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Products Related to NB100-1406

NB820-59231	Human Kidney Whole Tissue Lysate (Adult Whole Normal)
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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