

# Product Datasheet

## S100A4 Antibody (1C4) - Azide and BSA Free NBP2-80936

Unit Size: 0.1 mg

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

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**NBP2-80936**

S100A4 Antibody (1C4) - Azide and BSA Free

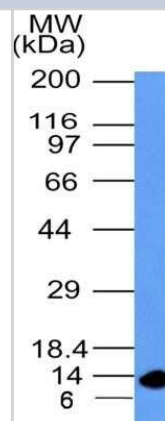
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1C4
Preservative	No Preservative
Isotype	IgG2b Lambda
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	11.7 kDa

Product Description	
Description	Novus Biologicals Knockout (KO) Validated Mouse S100A4 Antibody (1C4) - Azide and BSA Free (NBP2-36431) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	6275
Gene Symbol	S100A4
Species	Human
Immunogen	Partial recombinant human S100A4 protein (between amino acids 1-200) [UniProt P26447].

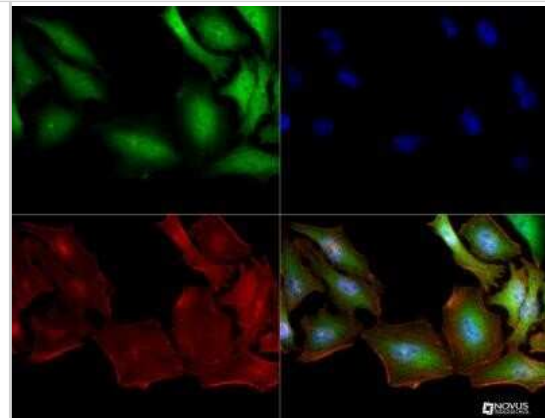
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, CyTOF-ready, Knockout Validated
Recommended Dilutions	Western Blot 1.0 ug/ml, Flow Cytometry, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 1:50 - 1:100, Immunohistochemistry-Paraffin 5 ug/ml, CyTOF-ready, Knockout Validated

**Images**

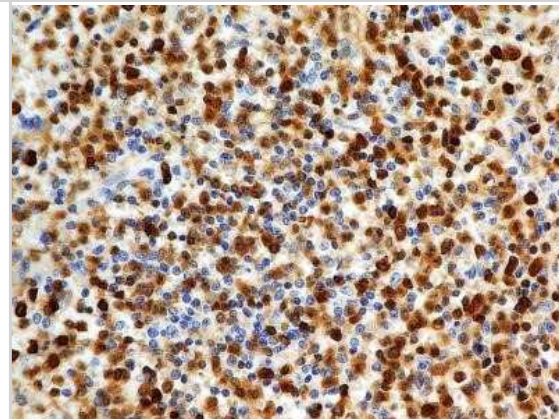
Western Blot: S100A4 Antibody (1C4) - Azide and BSA Free [NBP2-80936] - WB analysis of S100A4 recombinant protein with S100A4 antibody (clone 1C4) at 0.5 ug/ml concentration. Image from the standard format of this antibody.



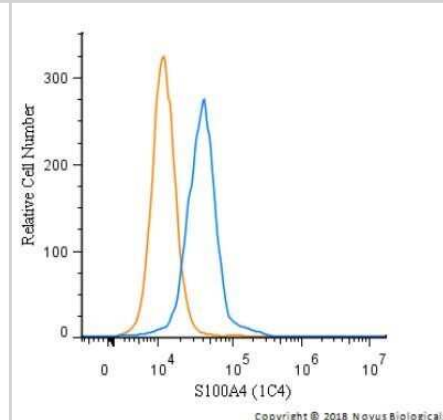
**Immunocytochemistry/Immunofluorescence: S100A4 Antibody (1C4) - Azide and BSA Free [NBP2-80936]** - S100A4 (1C4) antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). Image from the standard format of this antibody.



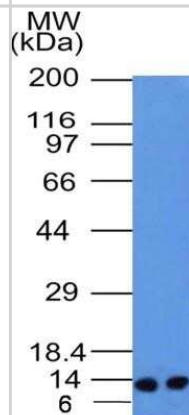
**Immunohistochemistry: S100A4 Antibody (1C4) - Azide and BSA Free [NBP2-80936]** - Analysis of tissue section of normal human spleen with mouse monoclonal S100A4 antibody (clone 1C4) at 5 ug/ml concentration. Image from the standard format of this antibody.



**Flow Cytometry: S100A4 Antibody (1C4) - Azide and BSA Free [NBP2-80936]** - An intracellular stain was performed on THP-1 cells with S100A4 (1C4) Antibody NBP2-36431 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5.0 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550. Image from the standard format of this antibody.

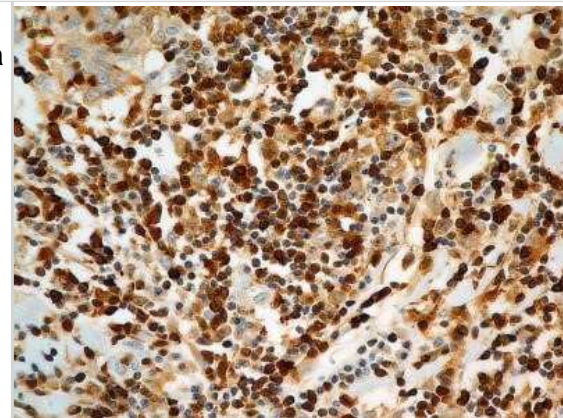


**Western Blot: S100A4 Antibody (1C4) - Azide and BSA Free [NBP2-80936]** - WB analysis of S100A4 in lysates of A375 and A549 cell lines with S100A4 antibody (clone 1C4). The antibody detected the endogenous protein at its expected molecular weight position 11.7 kDa. Image from the standard format of this antibody.

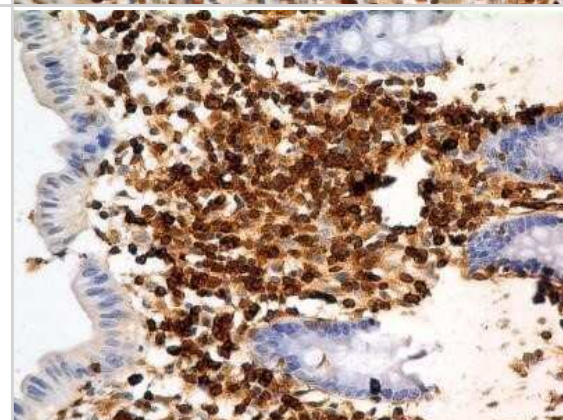




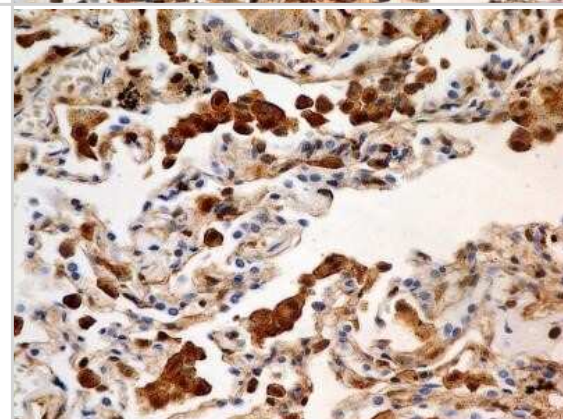
Immunohistochemistry: S100A4 Antibody (1C4) - Azide and BSA Free [NBP2-80936] - Analysis of tissue section of Squamous Cell Carcinoma of Human Lungs with mouse monoclonal S100A4 antibody (clone 1C4) at 5 ug/ml concentration. An expected cytoplasmic as well as nuclear staining was observed in the tissue and the staining was found to



Immunohistochemistry: S100A4 Antibody (1C4) - Azide and BSA Free [NBP2-80936] - Analysis of tissue section of human colon with mouse monoclonal S100A4 antibody (clone 1C4) at 5 ug/ml concentration. The columnar epithelial cells showed weak to negligible immunopositivity whereas the cells present in lamina propria, the loose cellular



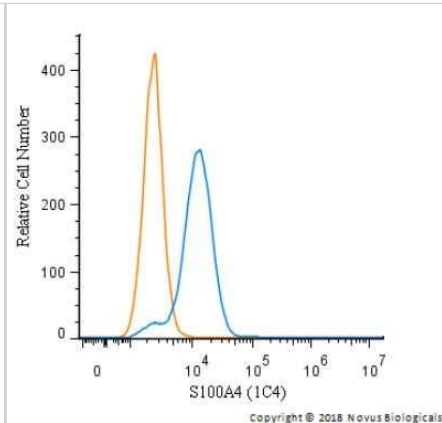
Immunohistochemistry: S100A4 Antibody (1C4) - Azide and BSA Free [NBP2-80936] - Analysis of tissue section of human normal lung with mouse monoclonal S100A4 antibody (clone 1C4) at 5 ug/ml concentration. Majority of the cells of respiratory alveoli showed the cytoplasmic staining whereas some clusters of cells (lymphocytes, macrophag



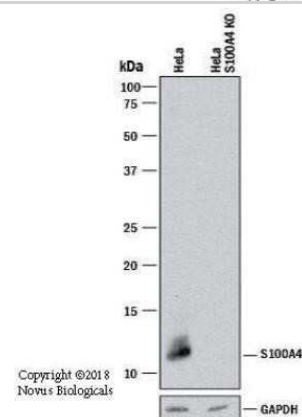
Immunohistochemistry: S100A4 Antibody (1C4) - Azide and BSA Free [NBP2-80936] - Analysis of tissue section of normal human skeletal muscle with mouse monoclonal S100A4 antibody (clone 1C4) at 5 ug/ml concentration. The different myocytes showed a varying degree of cytoplasmic immuno-positivity whereas the staining was found to be int



**Flow Cytometry: S100A4 Antibody (1C4) - Azide and BSA Free [NBP2-80936]** - An intracellular stain was performed on HeLa cells with S100A4 (1C4) Antibody NBP2-36431 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5.0 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550. Image from the standard format of this antibody.



**Western Blot: S100A4 Antibody (1C4) - Azide and BSA Free [NBP2-80936]** - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and S100A4 knockout (KO) HeLa cell line. PVDF membrane was probed with Mouse Anti-Human S100A4 Monoclonal Antibody (Catalog # NBP2-36431) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for S100A4 at approximately 12 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions. Image from the standard format of this antibody.





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### **Products Related to NBP2-80936**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBC1-27983	Recombinant Human S100A4 His Protein
DMP900	MMP-9 [HRP]

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### **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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