

# Product Datasheet

## S100A7/Psoriasis Antibody (47C1068) - Azide and BSA Free NBP2-24911

Unit Size: 0.1 mg

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

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**NBP2-24911**

S100A7/Psoriasin Antibody (47C1068) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	47C1068
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	Sterile - filtered PBS

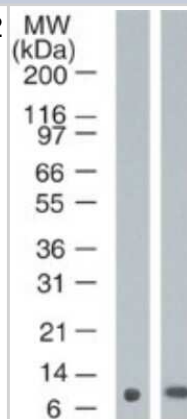
Product Description	
Description	Novus Biologicals Mouse S100A7/Psoriasin Antibody (47C1068) - Azide and BSA Free (NB100-56559) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and Simple Western. Anti-S100A7/Psoriasin Antibody: Cited in 15 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	6278
Gene Symbol	S100A7
Species	Human, Mouse
Immunogen	This antibody was developed against recombinant psoriasin/HID-5 protein.

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready
Recommended Dilutions	Western Blot 1 ug/ml, Simple Western 1:2000, Flow Cytometry, Immunohistochemistry reported in scientific literature (PMID 27328057), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:200, Immunohistochemistry-Frozen, Flow (Intracellular), CyTOF-ready
Application Notes	In confluent MCF10A cells, an 11 kDa band is observed. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in MCF-7 lysate 0.05 mg/mL, separated by Size, antibody dilution of 1:2000. Separated by Size-Wes, Sally Sue/Peggy Sue.

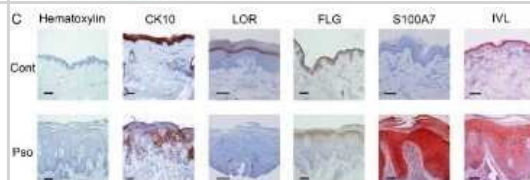


## Images

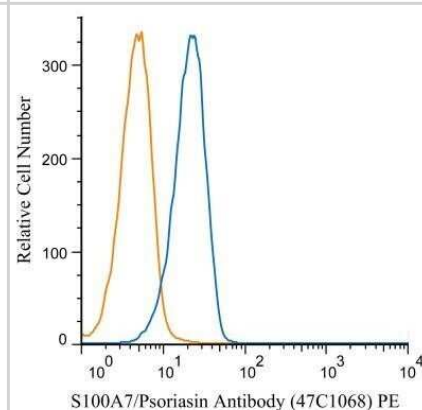
Western Blot: S100A7/Psoriasis Antibody (47C1068) - Azide Free [NBP2-24911] - analysis of psoriasis in A) MCF10A and B) MCF7 cell lysate using psoriasis antibody at 1 ug/ml.



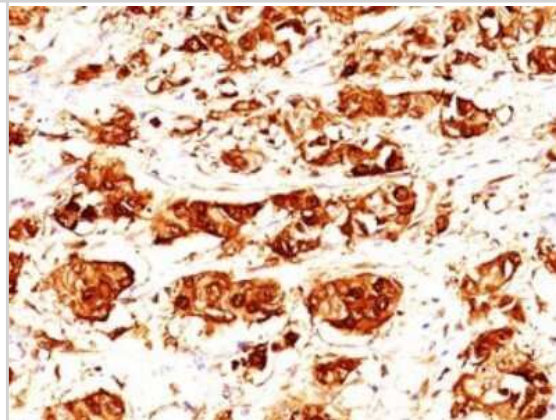
Immunohistochemistry: S100A7/Psoriasis Antibody (47C1068) - Azide Free [NBP2-24911] - Inhibition of KDM expression in vivo. Skin biopsies from normal control skin (Cont) or lesional psoriatic skin (Pso) were collected. Skin sections were stained with Hematoxylin and immunodetection of cytokeratin 10, 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. Image using the standard format of this product.



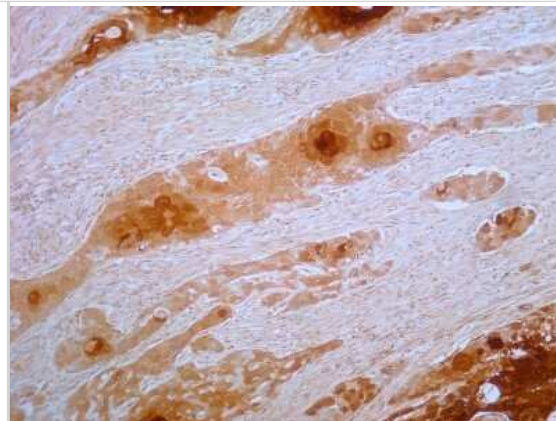
Flow (Intracellular): S100A7/Psoriasis Antibody (47C1068) - Azide Free [NBP2-24911] - An intracellular stain was performed on Jurkat cells with S100A7/Psoriasis antibody (47C1068) NBP2-24911PE (blue) and a matched isotype control NBP2-27287PE (orange). Cells were fixed with 4% PFA and then permeabilized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



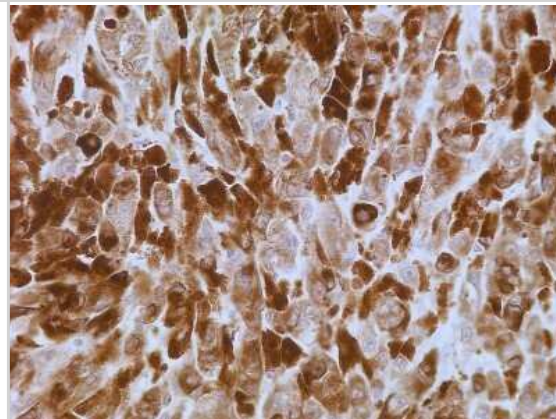
Immunohistochemistry-Paraffin: S100A7/Psoriasis Antibody (47C1068) - Azide Free [NBP2-24911] - Formalin-fixed, paraffin-embedded human breast tissue stained with psoriasis antibody at 1:200 using peroxidase-conjugate and DAB chromogen. Antigen retrieval with citrate buffer, pH 6.



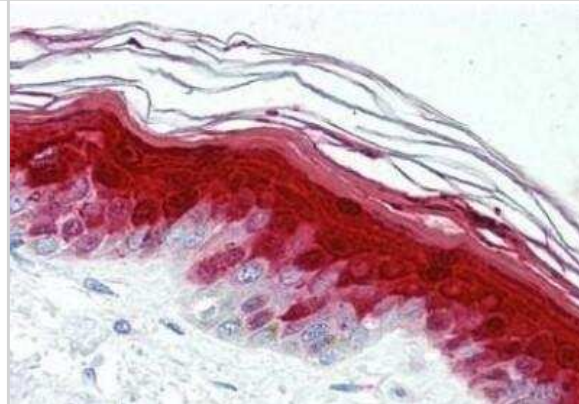
Immunohistochemistry-Paraffin: S100A7/Psoriasin Antibody (47C1068) - Azide Free [NBP2-24911] - Analysis using Azide/BSA FREE version of NBP2-24911. IHC analysis of formalin-fixed paraffin-embedded tissue section of human esophageal squamous cell carcinoma (SCC) using 5 ug/ml concentration of Psoriasin/S100A7 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.



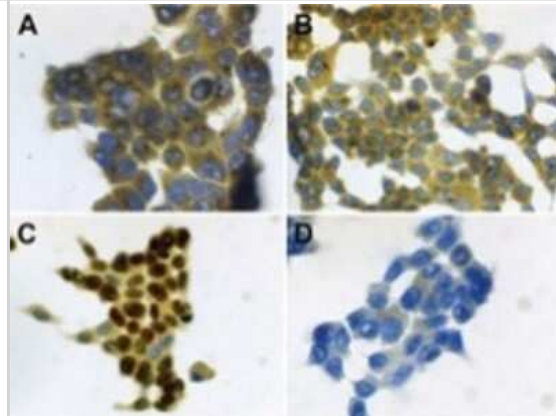
Immunohistochemistry-Paraffin: S100A7/Psoriasin Antibody (47C1068) - Azide Free [NBP2-24911] - IHC analysis of formalin-fixed paraffin-embedded tissue section of human lymph node cancer using 5 ug/ml concentration of Psoriasin/S100A7 antibody (clone 47C1068). Very strong cytoplasmic immunopositivity of Psoriasin/S100A7 protein was observed in the cancer cells.



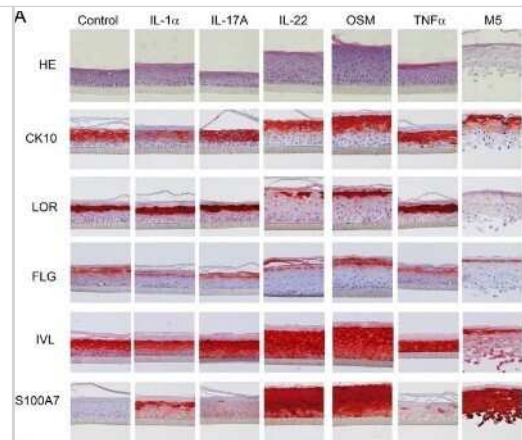
Immunohistochemistry-Paraffin: S100A7/Psoriasin Antibody (47C1068) - Azide Free [NBP2-24911] - Staining of human skin. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/ml.



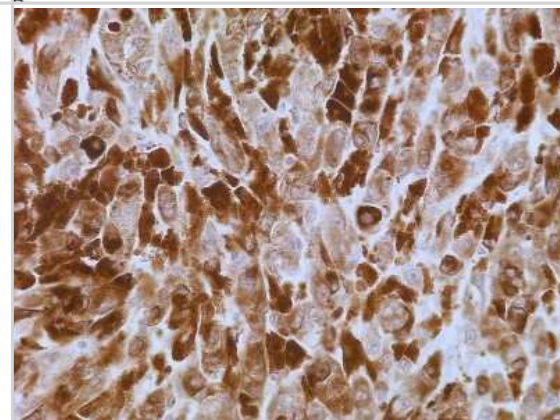
Immunohistochemistry: S100A7/Psoriasin Antibody (47C1068) - Azide Free [NBP2-24911] - Psoriasin (HID5/S100A7) immunocytochemical detection was performed on (A) untreated and (B) LPS-treated (100 ng/ml, 21 hrs) HOPE-fixed human bronchial epithelial (NCI-H727) cells. (D) Negative control was included omitting the primary antibody.



**Immunohistochemistry: S100A7/Psoriasin Antibody (47C1068) - Azide Free [NBP2-24911]** - 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 TNF 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. Image using the standard format of this product.



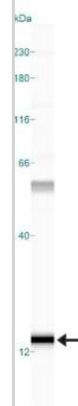
**Immunohistochemistry-Paraffin: S100A7/Psoriasin Antibody (47C1068) - Azide Free [NBP2-24911]** - Analysis of FFPE tissue section of human lymph node cancer using 5 ug/mL concentration of Psoriasin/S100A7 antibody (clone 47C1068). Very strong cytoplasmic immunopositivity of Psoriasin/S100A7 protein was observed in the cancer cells. Image using the standard format of this product.



**Immunohistochemistry-Paraffin: S100A7/Psoriasin Antibody (47C1068) - Azide Free [NBP2-24911]** - Staining of human skin. FFPE tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/mL. Image using the standard format of this product.



**Simple Western: S100A7/Psoriasin Antibody (47C1068) - Azide Free [NBP2-24911]** - Simple Western lane view 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.



## Publications

K K Dey, R Bharti, G Dey, I Pal, Y Rajesh, S Chavan, S Das, C K Das, B C Jena, P Halder, J G Ray, I Kulavi, M Mandal S100A7 has an oncogenic role in oral squamous cell carcinoma by activating p38/MAPK and RAB2A signaling pathway. *Cancer gene therapy* 2018-01-08 [PMID: 27767088]

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] (IF/IHC, WB, ICC/IF, Human)

Details:

Citation using the Azide Free form of this antibody.

Hashiramoto A, Yamane T, Tsumiyama K et al. Mammalian clock gene Cryptochrome regulates arthritis via proinflammatory cytokine TNF-alpha. *J Immunol.* 2010-02-01 [PMID: 20042581] (WB, Human)

Details:

S100A7 (IMG-409A): WB, human neutrophils, Fig 6.

Boniface K, Bernard FX, Garcia M et al. IL-22 inhibits epidermal differentiation and induces proinflammatory gene expression and migration of human keratinocytes. *J Immunol.* 2005-03-15 [PMID: 15749908]

Vegfors J, Petersson S, Kovacs A et al. The Expression of Psoriasin (S100A7) and CD24 Is Linked and Related to the Differentiation of Mammary Epithelial Cells. *PLoS One* 2012-12-27 [PMID: 23300877]

Guilloteau K, Paris I, Pedretti N et al. Skin Inflammation Induced by the Synergistic Action of IL-17A, IL-22, Oncostatin M, IL-1{alpha}, and TNF-{alpha} Recapitulates Some Features of Psoriasis. *J Immunol.* 2010-03-24 [PMID: 20335534]

Andresen E, Lange C, Strodthoff D et al. S100A7/psoriasin expression in the human lung: unchanged in patients with COPD, but upregulated upon positive *S. aureus* detection. *BMC Pulm Med.* 2011-02-15 [PMID: 21324122] (ICC/IF)

Details:

Psoriasin/HID5/S100A7 (IMG-409A). IF/ICC: Untreated or LPS treated bronchial epithelial cell line (NCI-H727), Fig 3.

Shubbar E, Vegfors J, Carlstrom M et al. Psoriasin (S100A7) increases the expression of ROS and VEGF and acts through RAGE to promote endothelial cell proliferation. *Breast Cancer Res Treat* 2011-12-22 [PMID: 22189627]

Porter D, Lahti-Domenici J, Keshaviah A et al. Molecular markers in ductal carcinoma in situ of the breast. *Mol Cancer Res.* 2003-03-01 [PMID: 12651909]

Details:

IHC(paraffin), Fig 2A,C.

Martinsson H, Yhr M, Enerback C. Expression patterns of S100A7 (psoriasin) and S100A9 (calgranulin-B) in keratinocyte differentiation. *Exp Dermatol.* 2005-03-01 [PMID: 15740587]

Zhu L, Okano S, Takahara M et al. Expression of S100 protein family members in normal skin and sweat gland tumors. *J Dermatol Sci.* 2013-06-01 [PMID: 23623205]

Details:

Psoriasin/HID5/S100A7 Clone 47C1068 (IMG-409A), IHC (paraffin): Normal human skin and sweat gland tumors, Figs 1k-O & 5A-G, Tables 1-3. Note: The 47C1068 S100A7 mAb was used at 10 ug/ml.

Garreis F, Gottschalt M, Schlorf T et al. Expression and regulation of antimicrobial peptide psoriasin (S100A7) at the ocular surface and in the lacrimal apparatus. *Invest Ophthalmol Vis Sci.* 2011-07-01 [PMID: 21551409]

Details:

Psoriasin/HID5/S100A7 (IMG-409A). IHC (paraffin) & WB: Human corneal epithelial (HCE), conjunctival epithelial (HCjE), lacrimal glands (lg), nasolacrimal ducts (nd), conjunctivae (cj), corneae cells, Fig 1 & 4.

More publications at <http://www.novusbio.com/NBP2-24911>





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### **Products Related to NBP2-24911**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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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