abcam

ab13680

Anti-Psoriasin antibody [47C1068]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Human S100A7. Database link P31151
Clone number	47C1068
Purification technique	Affinity purification Protein G
Light chain type	kappa
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	This antibody is affinity purified.

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-
Notes	

	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

IP

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt

Expected

Species	Human
Dilution info	-
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

WB

Tested

Species	Human
Dilution info	1-3 µg/mL
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	5 µg/mL
Notes	-

IHC-Fr

Expected

Species	Human
Dilution info	-
Notes	(PMID 18606705).

Flow Cyt (Intra)

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information S100A7

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Psoriasin also known as S100A7 is a member of the S100 protein family. It has a molecular mass of approximately 11.4 kDa. This protein exhibits calcium binding properties that influence its function. Psoriasin primarily expresses in keratinocytes which are predominant in the epidermis of the skin. Additionally it

	appears in various epithelia like mucous membranes. The expression levels rise in certain skin conditions suggesting it has a role in skin physiology.
Biological function summary	Psoriasin acts as an antimicrobial peptide contributing to the skin's defense system against microbial invasion. It helps in controlling the growth of bacteria like E. coli and fungi. The protein does not function as part of a larger complex. Instead it operates independently to maintain the integrity of the skin barrier. Psoriasin also shows involvement in the inflammatory response of the skin where it interact with other immune system players.
Pathways	Several biological systems involve psoriasin including inflammation and skin homeostasis pathways. It interacts closely with other S100 proteins such as S100A8 and S100A9 which are part of the inflammatory process. These interactions can regulate immune cell migration and cytokine production highlighting its active role in modulating skin immune responses. Psoriasin serves as an important component in maintaining the balance between immune protection and inflammation within these pathways.
Associated diseases and disorders	Psoriasin associates with psoriasis and breast cancer. In psoriasis it significantly increases aligning with its role in inflammation and skin barrier maintenance. The upregulation of psoriasin in psoriasis has been linked to overexpression of related proteins like S100A8 contributing to the chronic inflammatory state. In breast cancer particularly in certain carcinoma contexts its presence suggests a role in cancer cell survival. Researchers study its interaction with proteins in the cancer microenvironment to better understand its influence on tumor progression.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

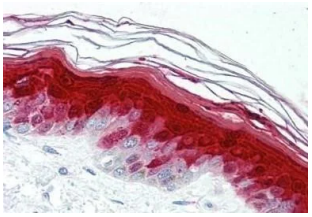
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

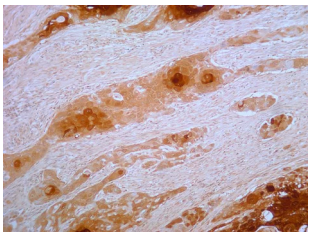
5 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Psoriasin antibody [47C1068] (ab13680)

Psoriasin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-Psoriasin antibody

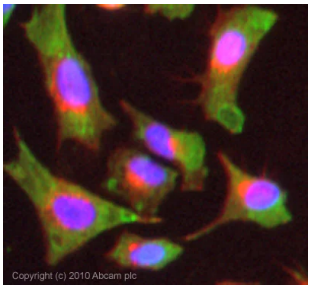
Immunohistochemistry analysis of formalin-fixed paraffin-embedded human skin tissue after heat-induced antigen retrieval, staining psoriasin with ab13680 in 10 µg/mL concentration.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Psoriasin antibody [47C1068] (ab13680)

Psoriasin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-Psoriasin antibody

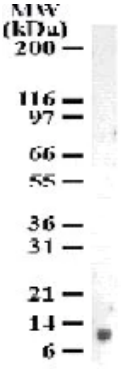
Immunohistochemistry analysis of human esophageal squamous cell carcinoma (SCC) staining psoriasin with ab13680 in 5 µg/mL concentration.



Immunocytochemistry/ Immunofluorescence - Anti-Psoriasin antibody [47C1068] (ab13680)

Psoriasin Immunocytochemistry/ Immunofluorescence staining using mouse Anti-Psoriasin antibody

ICC/IF image of ab13680 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab13680, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



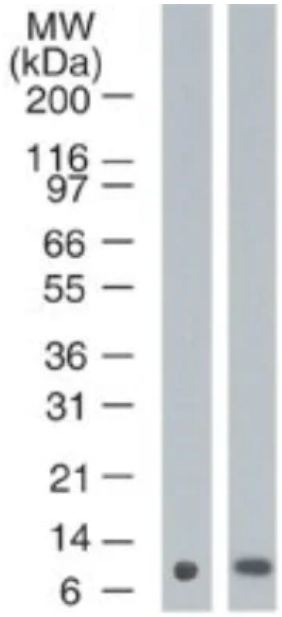
Western blot - Anti-Psoriasin antibody [47C1068] (ab13680)

Psoriasin Western blot staining using mouse Anti-Psoriasin antibody

Western blot analysis of Psoriasin in confluent MCF10A cells using ab13680 at 1 µg/ml.

Western blot analysis of Psoriasin in confluent MCF10A cells using ab13680 at 1 µg/ml.
All lanes:
Western blot - Anti-Psoriasin antibody [47C1068] (ab13680)

Predicted band size: 11 kDa



Western blot - Anti-Psoriasin antibody [47C1068] (ab13680)

All lanes:
Western blot - Anti-Psoriasin antibody [47C1068] (ab13680) at 1 µg/mL

Lane 1:
MCF10A cell lysate

Lane 2:
MCF7 cell lysate

Predicted band size: 11 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.