


S100A7 / HID5 / Psoriasin (Proliferative Epithelial Cell Marker); Clone S100A7/542 (Concentrate)

Availability/Contents:


<u>Item #</u>	<u>Volume</u>
RA0286-C.5	0.5 ml

Description:

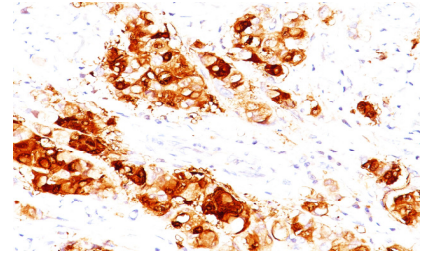
Species:	Mouse
Immunogen:	Recombinant human S100A7 protein
Clone:	S100A7/542
Isotype:	IgG1, kappa
Entrez Gene ID:	6278 (Human)
Hu Chromosome Loc.:	1q21
Synonyms:	HID 5; Psoriasin1 (PSOR1); S100 calcium-binding protein A7; S100A7; S100A7c
Mol. Weight of Antigen:	11kDa
Format:	200µg/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 1mM PBS with 0.05% BSA & 0.05% azide.
Specificity:	This antibody recognizes a protein of 11kDa, identified as S100A7. This protein is markedly over-expressed in the skin lesions of psoriatic patients. This protein is found to have elevated expression in abnormally differentiating primary keratinocytes and in various carcinomas, including ductal carcinoma in situ. It may serve as a marker of abnormally proliferative epithelia.
Background:	S100A7 is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and are involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members, which are located as a cluster on chromosome 1q21. This protein differs from the other S100 proteins of known structure in its lack of calcium binding ability in one EF-hand at the N-terminus.
Species Reactivity:	Human. Others not known.
Positive Control:	MCF-7 cells. Breast carcinoma.
Cellular Localization:	Cytoplasmic
Titer/ Working Dilution:	Immunohistochemistry (Frozen and Formalin-fixed): 0.5-1 µg/ml Flow Cytometry: 0.5-1 µg/million cells Immunofluorescence: 0.5-1 µg/ml Western Blotting: 0.5-1 µg/ml Immunoprecipitation: 0.5-1 µg/500µg protein lysate
Microbiological State:	This product is not sterile.

 Storage: 2° C  8° C


 ScyTek Laboratories, Inc.
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 U.S.A.



 EmergoEurope (31)(0) 70 345-8570
 Molsnstraat 15
 2513 BH Hague, The Netherlands

Uses/Limitations: Not to be taken internally.
 For Research Use Only.
 This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
 Do not use if reagent becomes cloudy.
 Do not use past expiration date.
 Non-Sterile.



Formalin-fixed, paraffin-embedded human breast carcinoma stained with S100A7; Clone S100A7/542.

Ordering Information and Current Pricing at www.scytek.com

Procedure:

1. **Tissue Section Pretreatment (Required):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500).
2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
3. **Visualization:** For maximum staining intensity we recommend the “UltraTek HRP Anti-Polyvalent Lab Pack” (ScyTek catalog# UHP125, see IFU for instructions) combined with the “DAB Chromogen/Substrate Bulk Pack (High Contrast)” (ScyTek catalog# ACV500, see IFU for instructions).


Precautions: Contains Sodium Azide as a preservative (0.09% w/v).
 Do not pipette by mouth.
 Avoid contact of reagents and specimens with skin and mucous membranes.
 Avoid microbial contamination of reagents or increased nonspecific staining may occur.
 This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.


References:

1. Ian Krop, Annette Mařrz, Hanna Carlsson, Xiaochun Li, Noga Bloushtain-Qimron, Min Hu, Rebecca Gelman, Michael S. Sabel, Stuart Schnitt, Sridhar Ramaswamy, Celina G. Kleer, Charlotta Enerba and Kornelia Polyak. A Putative Role for Psoriasin in Breast Tumor Progression. Cancer Res 2005; 65(24): 11326-34.

Warranty:

No products or “Instructions For Use (IFU)” are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.

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