S100A7 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	S100A7, Monoclonal Antibody
Full Product Name	mAb anti-human S100A7
Product Gene Name	anti-S100A7 antibody
Product Synonym Names	S100A7 (psoriasin); Mouse monoclonal antibody to human S100A7 (psoriasin)
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	2E 6
Host	Mouse
Species Reactivity	Human. Others not tested
Form/Format	Lyophilized from a solution in 0.01M PBS, pH 7.0
Purity/Purification	Protein G affinity purified
Specificity	This antibody is reactive to S100A7 peptide (tdyhkqshgaapcsggs) and GST tagged recombinant S100A7 protein. S100A7 (psoriasin)
Preparation and Storage	Store at -20 degree C
Molecular Weight	11,471 Da
OMIM	600353
3D Structure	ModBase 3D Structure for P31151
Target Protein	Human S100A7 (psoriasin)
Immunogen	A short peptide (tdyhkqshgaapcsggs) derived from human S100A7 (psoriasin) was conjugated with KLH for immunization.
Myeloma	Sp2/0-Ag14
Light Chain	Kappa
Reconstitution	Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.
Research Area	Oncology, psoriasis
Product Categories/Family for anti-S100A7 antibody	Primary antibody; Monoclonal Antibodies to Human Tumor Markers
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-S100A7 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-S100A7 antibody	Western blot: This antibody is reactive to 36.85KD GST tagged recombinant S100A7 protein ELISA: This antibody is reactive to recombinant S100A7 protein.

Related Product Information for anti-S100A7 antibody	**Description:** Mouse monoclonal antibody to human S100A7 (psoriasin) **background:** S100A7 is 11 kilo-dalton calcium binding protein with 2 EF motifs. It is also called psoriasin due to its significantly elevated level in the skin lesion of psoriasis. The protein is over-expressed in squamous cell tumors of the skin, lung and breast. S100A7 expression is induced after activation of epidermal growth factor receptor.
Other Notes	Small volumes of anti-S100A7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for S100A7 purchase	MBS592346 is an antibody targeting S100A7. Also known as mAb anti-human S100A7. Reactive in Human. Others not tested. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for S100A7. It may not necessarily be applicable to this product.

NCBI GI #	49457324
NCBI Accession #	CAG46961.1
UniProt Primary Accession #	P31151
UniProt Secondary Accession #	Q5SY67; Q6FGE3; Q9H1E2
NCBI Official Full Name	S100A7
UniProt Protein Name	Protein S100-A7
UniProt Synonym Protein Names	Psoriasin; S100 calcium-binding protein A7
Protein Family	Protein
UniProt Gene Name	S100A7
UniProt Entry Name	S10A7_HUMAN
UniProt Comments for S100A7	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 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. This protein is markedly over-expressed in the skin lesions of psoriatic patients, but is excluded as a candidate gene for familial psoriasis susceptibility. The exact function of this protein is not known. [provided by RefSeq, Jul 2008] Chromosomal Location of Human Ortholog: 1q21 Cellular Component: focal adhesion; endoplasmic reticulum; cytoplasm; extracellular region; cytosol; nucleus Molecular Function: RAGE receptor binding; protein binding; zinc ion binding; calcium ion binding Biological Process: keratinocyte differentiation; sequestering of metal ion; response to reactive oxygen species; epidermis development; innate immune response; response to lipopolysaccharide; angiogenesis; defense response to Gram-negative bacterium
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