

Mouse Monoclonal Antibody to Human S100 Calcium Binding Protein A7

Cat. No. CAB11595MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human S100 Calcium Binding Protein A7
Species	Human
Source	Mouse
Antigen Description	<p>Protein S100-A7, also known as S100 calcium-binding protein A7, Psoriasin, S100A7, and PSOR1, is a secreted protein which belongs to the S-100 family. S100A7 was first isolated from skin involved by psoriasis, which can be induced in cultured squamous epithelial cells. S100A7 is expressed by both normal cultured and malignant keratinocytes and malignant breast epithelial cells within ductal carcinoma in situ, suggesting an association with abnormal pathways of differentiation. S100A7 plays a role in the pathogenesis of inflammatory skin disease, as a chemotactic factor for hematopoietic cells. It also plays a role in early stages of breast tumor progression in association with the development of the invasive phenotype.</p>
Specificity	Human S100A7. No cross-reactivity in ELISA with Human S100A8; Human S100A9; Human S100A10; E.coli cell lysate
Immunogen	Recombinant Human S100A7 Protein
Isotype	Mouse IgG1
Clone	4F4I13G10

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Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect S100A7-His in WB. Using a DAB detection system, the detection limit for S100A7-His is approximately 20 ng/lane under non-reducing conditions and reducing conditions. Direct ELISA: This antibody can be used at 0.5-1 µg/mL with the appropriate secondary reagents to detect S100A7-His. The detection limit for S100A7-His is approximately 0.16 ng/well.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human S100A7. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	S100A7 S100 calcium binding protein A7 [Homo sapiens]
Official Symbol	S100A7
Synonyms	S100A7; S100 calcium binding protein A7; PSOR1,S100 calcium binding protein A7 (psoriasin 1) ,S100 calcium binding protein A7 (psoriasin 1); protein S100-A7;

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	S100A7c; psoriasin 1; S100 calcium-binding protein A7 (psoriasin 1); PSOR1;
Gene ID	6278
mRNA Refseq	NM_002963
Protein Refseq	NP_002954
MIM	600353
UniProt ID	P31151
Chromosome Location	1q21
Pathway	Validated targets of C-MYC transcriptional repression, organism-specific biosystem;
Function	RAGE receptor binding; calcium ion binding; protein binding; zinc ion binding; zinc ion binding;

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