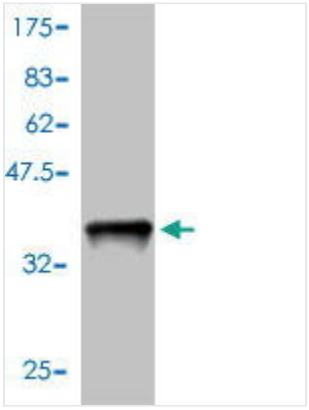
S100A4 Antibody – Mouse Monoclonal

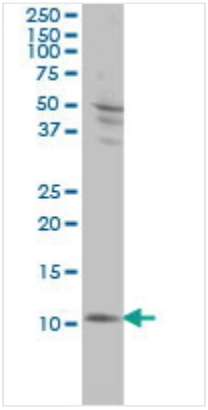
PRODUCT OVERVIEW

Product Name	S100A4, Monoclonal Antibody
Full Product Name	S100A4 (Protein S100-A4, Calvasculin, Metastasin, Placental Calcium-binding Protein, Protein Mts1, S100 Calcium-binding Protein A4, CAPL, MTS1) APC
Product Gene Name	anti-S100A4 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1F12-1G7
Host	Mouse
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human S100A4. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	11,729 Da
Immunogen	Full length recombinant corresponding to aa1-102 from human S100A4 (AAH16300) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MACPLEKALDVMVSTFHKYSGKEGDKFKLNKSELKELLTRELPSFLGKRTDEAAFQKLMSNLDSNRDNEVDFQEYCVFLSCIAMMCDEFFEGFPDKQPR
Conjugate	APC
Product Categories/Family for anti-S100A4 antibody	Antibodies; Binding Proteins; Calcium
Applications Tested/Suitable for anti-S100A4 antibody	ELISA (EIA), Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-S100A4 antibody	IF: 15ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-S100A4 antibody	MBS6138890 is an antibody targeting S100A4. Also known as S100A4 (Protein S100-A4, Calvasculin, Metastasin, Placental Calcium-binding Protein, Protein Mts1, S100 Calcium-binding Protein A4, CAPL, MTS1) APC. Reactive in Human, Mouse. Host: Mouse.

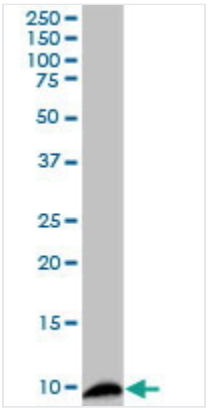
Product References and Citations for anti-S100A4 antibody	1. Potential role for S100A4 in the disruption of the blood-brain barrier in collagen-induced arthritic mice, an animal model of rheumatoid arthritis. Nishio T, Furusho K, Tomita A, Ohishi H, Dohgu S, Shuto H, Yamauchi A, Kataoka Y.Neuroscience. 2011 May 26.
Other Notes	Small volumes of anti-S100A4 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 and additional dry ice fee may apply.



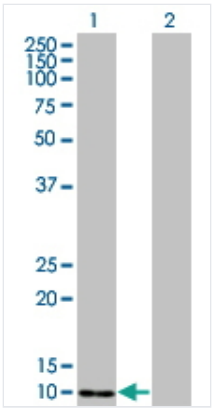
Western Blot (WB) of anti-S100A4 antibody
Western Blot detection against Immunogen (37.22kD)



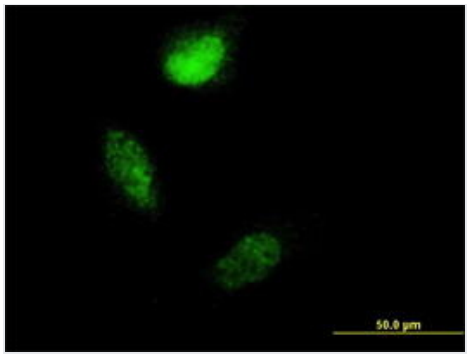
Western Blot (WB) of anti-S100A4 antibody
S100A4 monoclonal antibody Western Blot analysis of S100A4 expression in Hela.



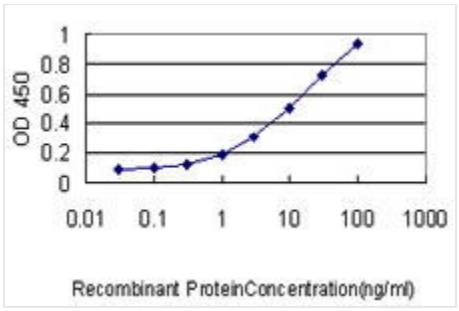
Western Blot (WB) of anti-S100A4 antibody
S100A4 monoclonal antibody Western Blot analysis of S100A4 expression in NIH/3T3.



Western Blot (WB) of anti-S100A4 antibody
Western Blot analysis of S100A4 expression in transfected 293T cell line by S100A4 monoclonal antibody. Lane 1: S100A4 transfected lysate (11.7kD). Lane 2: Non-transfected lysate.



Immunofluorescence (IF) of anti-S100A4 antibody
Immunofluorescence of monoclonal antibody to S100A4 on HeLa cell. [antibody concentration 15ug/ml]



Testing Data of anti-S100A4 antibody
Detection limit for recombinant GST tagged S100A4 is ~0.1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for S100A4. It may not necessarily be applicable to this product.

NCBI GI #	16740880
NCBI GeneID	6275
NCBI Accession #	BC016300
NCBI Related Accession #	AAH16300
UniProt Secondary Accession #	Q6ICP8; A8K7R8; D3DV46
UniProt Related Accession #	P26447
NCBI Official Full Name	Homo sapiens S100 calcium binding protein A4, mRNA
NCBI Official Synonym Full Names	S100 calcium binding protein A4
NCBI Official Symbol	S100A4
NCBI Official Synonym Symbols	42A; 18A2; CAPL; FSP1; MTS1; P9KA; PEL98
Protein Family	Protein
NCBI Protein Information	protein S100-A4
NCBI Summary for S100A4	The protein encoded by this gene 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 may function in motility, invasion, and tubulin polymerization. Chromosomal rearrangements and altered expression of this gene have been implicated in tumor metastasis. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]
Research Articles on S100A4	**1.** S100A4 levels are elevated in human periodontal ligament cells in response to IL-1beta.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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