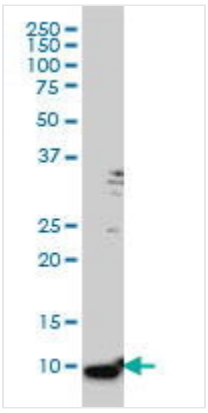
S100A6 Antibody – Mouse Monoclonal

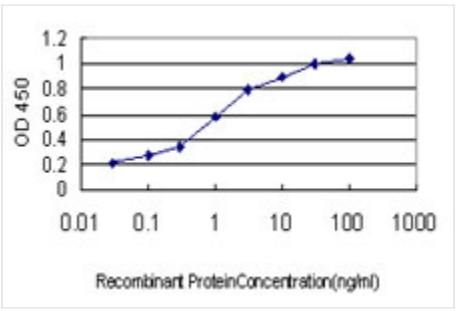
PRODUCT OVERVIEW

Product Name	S100A6, Monoclonal Antibody
Full Product Name	S100A6 (S100 Calcium Binding Protein A6, 2A9, 5B10, CABP, CACY, PRA) (HRP)
Product Gene Name	anti-S100A6 antibody
Product Synonym Names	S100 Calcium Binding Protein A6; 2A9; 5B10; CABP; CACY; PRA
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	6D1
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes S100A6.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	12.3 kDa (110aa) confirmed by MALDI-TOF
OMIM	114110
3D Structure	ModBase 3D Structure for P06703
Immunogen	S100A6 (NP_055439, 18aa-90aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KYSGREGDKHTLSKKELKELIQKELTIGSKLQDAEIARLMEDLDRNKDQEVNFQEYVTFLGALALIYSEALKG
Conjugate	HRP
Product Categories/Family for anti-S100A6 antibody	Antibodies; Binding Proteins; Calcium
Applications Tested/Suitable for anti-S100A6 antibody	Western Blot (WB)
Application Notes for anti-S100A6 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-S100A6 antibody	MBS6179362 is an antibody targeting S100A6. Also known as S100A6 (S100 Calcium Binding Protein A6, 2A9, 5B10, CABP, CACY, PRA) (HRP). Host: Mouse.
Product References and Citations for anti-S100A6 antibody	1. Cancer-Initiating Cells from Colorectal Cancer Patients Escape from T Cell-Mediated Immunosurveillance In Vitro through Membrane-Bound IL-4.Volonte A, Di Tomaso T, Spinelli M, Todaro M, Sanvito F, Albarello L, Bissolati M, Ghirardelli L, Orsenigo E, Ferrone S, Doglioni C, Stassi G, Dellabona P, Staudacher C, Parmiani G, Maccalli CJ Immunol. 2013 Nov 25. 2.S100A6 Overexpression Associates with Poor Prognosis and Is Epigenetically Up-Regulated in Gastric Cancer.Wang XH, Zhang LH, Zhong XY, Xing XF, Liu YQ, Niu ZJ, Peng Y, Du H, Zhang GG, Hu Y, Liu N, Zhu YB, Ge SH, Zhao W, Lu AP, Li JY, Ji JF.Am J Pathol. 2010 Jun 25. 3.Immunobiological Characterization of Cancer Stem Cells Isolated from Glioblastoma Patients.Di Tomaso T, Mazzoleni S, Wang E, Sovena G, Clavenna D, Franzin A, Mortini P, Ferrone S, Doglioni C, Marincola FM, Galli R, Parmiani G, Maccalli C.Clin Cancer Res. 2010 Feb 1;16(3):800-13. Epub 2010 Jan 26.

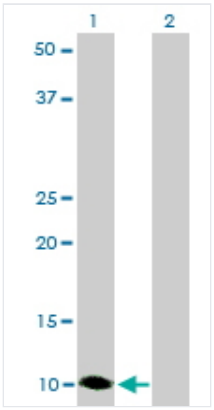
Other Notes	Small volumes of anti-S100A6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-S100A6 antibody
S100A6 monoclonal antibody (M16), clone 6D1 Western Blot analysis of S100A6 expression in HeLa (Cat # L013V1).



Testing Data of anti-S100A6 antibody
Detection limit for recombinant GST tagged S100A6 is approximately 0.03ng/ml as a capture antibody.



Western Blot (WB) of anti-S100A6 antibody
Western Blot analysis of S100A6 expression in transfected 293T cell line by S100A6 monoclonal antibody (M16), clone 6D1.Lane 1: S100A6 transfected lysate (10.2 KDa).Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for S100A6. It may not necessarily be applicable to this product.

NCBI GI #	7657532
NCBI GeneID	6277
NCBI Accession #	NP_055439
UniProt Primary Accession #	P06703
UniProt Secondary Accession #	Q5RHS4; D3DV39
UniProt Related Accession #	P06703
GenBank Nucleotide #	NM_014624.3
NCBI Official Full Name	protein S100-A6
NCBI Official Synonym Full Names	S100 calcium binding protein A6
NCBI Official Symbol	S100A6
NCBI Official Synonym Symbols	2A9; PRA; 5B10; CABP; CACY; S10A6

UniProt Protein Name	Protein S100-A6
UniProt Synonym Protein Names	Calcyclin; Growth factor-inducible protein 2A9; MLN 4; Prolactin receptor-associated protein; PRA; S100 calcium-binding protein A6
Protein Family	Protein
UniProt Gene Name	S100A6
UniProt Synonym Gene Names	CACY; PRA
UniProt Entry Name	S10A6_HUMAN
NCBI Protein Information	protein S100-A6
NCBI Summary for S100A6	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 stimulation of Ca2+-dependent insulin release, stimulation of prolactin secretion, and exocytosis. Chromosomal rearrangements and altered expression of this gene have been implicated in melanoma. [provided by RefSeq, Jul 2008]
UniProt Comments for S100A6	S100A6: May function as calcium sensor and contribute to cellular calcium signaling (Potential). May function by interacting with other proteins and indirectly play a role in the reorganization of the actin cytoskeleton and in cell motility. Binds 2 calcium ions. Calcium binding is cooperative. Belongs to the S-100 family. Chromosomal Location of Human Ortholog: 1q21 Cellular Component: ruffle; extrinsic to internal side of plasma membrane; perinuclear region of cytoplasm; cytoplasm; nuclear envelope; nucleus; cytosol Molecular Function: protein binding; protein homodimerization activity; zinc ion binding; ion transmembrane transporter activity; calcium ion binding; tropomyosin binding; calcium-dependent protein binding Biological Process: positive regulation of fibroblast proliferation; axonogenesis; signal transduction
Research Articles on S100A6	**1.** The S100A6 interacts with FOR20 and related centrosomal proteins through a conserved N-terminal domain, suggesting a novel Ca(2+)-dependent regulation of centrosomal function.
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