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S100A4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant S100A4.
Catalog # AT3757a

Product Information

Application	WB, IF, E
Primary Accession	P26447
Other Accession	BC016300
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	S1
Calculated MW	11729

Additional Information

Gene ID	6275
Other Names	Protein S100-A4, Calvasculin, Metastasin, Placental calcium-binding protein, Protein Mts1, S100 calcium-binding protein A4, S100A4, CAPL, MTS1
Target/Specificity	S100A4 (AAH16300, 1 a.a. ~ 101 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	S100A4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

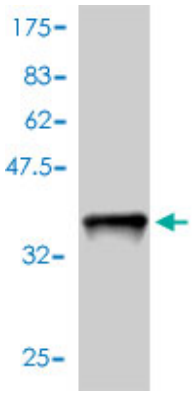
Background

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.

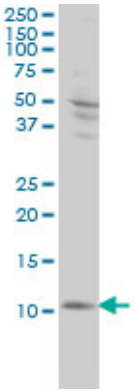
References

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.Identification of novel molecular markers through transcriptomic analysis in human fetal and adult corneal endothelial cells.Chen Y, Huang K, Nakatsu MN, Xue Z, Deng SX, Fan G.Hum Mol Genet. 2013 Jan 8.3.MiR-21/Smad 7 signaling determines TGF-?1-induced CAF formation.Li Q, Zhang D, Wang Y, Sun P, Hou X, Larner J, Xiong W, Mi JSci Rep. 2013;3:2038. doi: 10.1038/srep02038.4.Androgen receptor expression in satellite cells of the neonatal levator ani of the rat.Swift-Gallant A, Monks DA.Dev Neurobiol. 2012 Dec 12. doi: 10.1002/dneu.22066.5.Potential role for S100A4 in the disruption of the blood-brain barrier in collagen-induced arthritic mice, an animal model of rheumatoid arthritis.Nishioku T, Furusho K, Tomita A, Ohishi H, Dohgu S, Shuto H, Yamauchi A, Kataoka Y.Neuroscience. 2011 May 26. [Epub ahead of print]

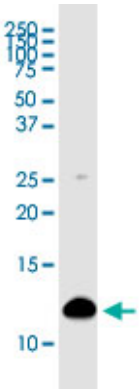
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.85 KDa) .



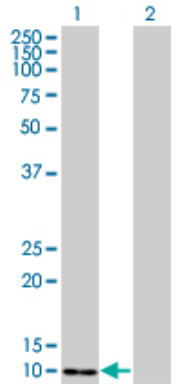
S100A4 monoclonal antibody (M01), clone 1F12-1G7 Western Blot analysis of S100A4 expression in Hela ((Cat # AT3757a)



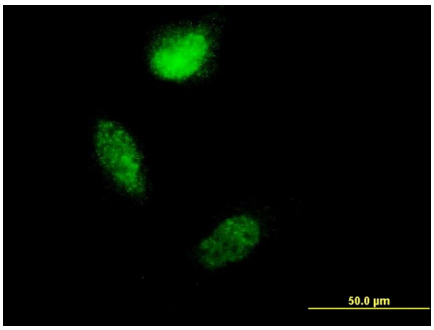
S100A4 monoclonal antibody (M01), clone 1F12-1G7. Western Blot analysis of S100A4 expression in Raw 264.7.

Western Blot analysis of S100A4 expression in transfected 293T cell line by S100A4 monoclonal antibody (M01), clone 1F12-1G7.

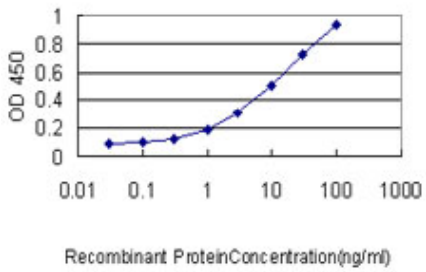
Lane 1: S100A4 transfected lysate(11.7 KDa).



Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to S100A4 on HeLa cell. [antibody concentration 15 ug/ml]



Detection limit for recombinant GST tagged S100A4 is approximately 0.1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.