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S100A13 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant S100A13.
Catalog # AT3753a

Product Information

Application	WB, IF, E
Primary Accession	Q99584
Other Accession	NM_005979
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3A7
Calculated MW	11471

Additional Information

Gene ID	6284
Other Names	Protein S100-A13, S100 calcium-binding protein A13, S100A13
Target/Specificity	S100A13 (NP_005970, 1 a.a. ~ 98 a.a) partial 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	S100A13 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

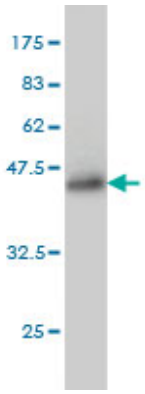
Background

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 is widely expressed in various types of tissues with a high expression level in thyroid gland. In smooth muscle cells, this protein co-expresses with other family members in the nucleus and in stress fibers, suggesting diverse functions in signal transduction. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene.

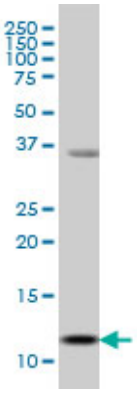
References

S100A13 is a new angiogenic marker in human melanoma. Massi D, et al. Mod Pathol, 2010 Jun. PMID 20208480.S100A13-C2A binary complex structure-a key component in the acidic fibroblast growth factor for the non-classical pathway. Mohan SK, et al. Biochem Biophys Res Commun, 2009 Mar 13. PMID 19284995.Structure of calcium-bound human S100A13 at pH 7.5 at 1.8 A resolution. Imai FL, et al. Acta Crystallogr Sect F Struct Biol Cryst Commun, 2008 Feb 1. PMID 18259052.Crystal structure study on human S100A13 at 2.0 A resolution. Li M, et al. Biochem Biophys Res Commun, 2007 May 11. PMID 17374362.Crystallization and preliminary X-ray analysis of human S100A13. Imai FL, et al. Acta Crystallogr Sect F Struct Biol Cryst Commun, 2006 Nov 1. PMID 17077500.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.52 KDa) .

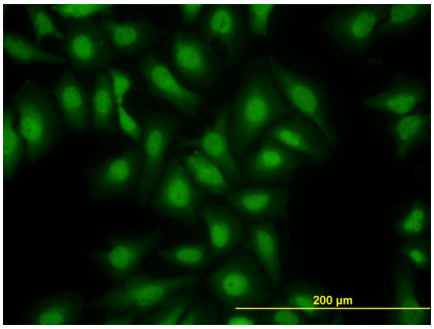


S100A13 monoclonal antibody (M01), clone 3A7 Western Blot analysis of S100A13 expression in MCF-7 ((Cat # AT3753a)

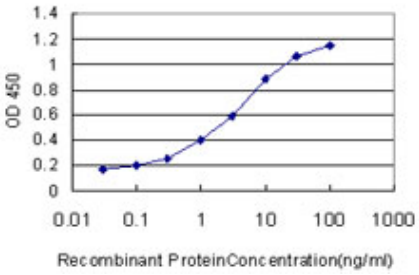


Western Blot analysis of S100A13 expression in transfected 293T cell line by S100A13 monoclonal antibody (M01), clone 3A7.

Lane 1: S100A13 transfected lysate(11.5 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to S100A13 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged S100A13 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'.