

Mouse anti-Human S100A4 Monoclonal Antibody | anti-S100A4 antibody

anti-human S100 calcium binding protein A4 monoclonal antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71465	Mouse	Human	Immunohistochemistry, Flow Cytometry, Functional Assay

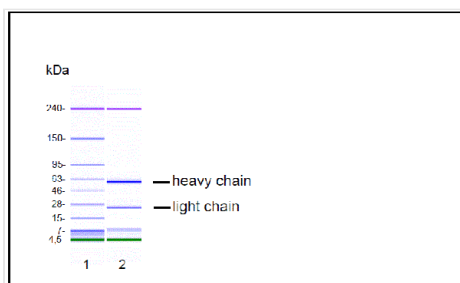
PRODUCT SYNONYMS

S100A4; Monoclonal Antibody; anti-human S100 calcium binding protein A4 monoclonal antibody; anti-S100A4 antibody

PRODUCT SPECIFICATIONS

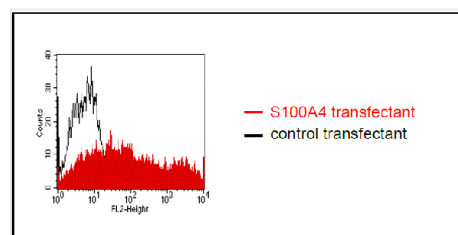
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	NJ-4F3
Specificity	anti-human S100 calcium binding protein A4 (S100 A4)
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	101
Applicable Applications for anti-S100A4 antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunisation with cDNA encoding S100 A4
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Immunogen	cDNA
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)

IMAGES



Application Data

Fig.2: CGE analysis of purified NJ-4F3 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified NJ-4F3 antibody. Proteins were separated by CGE (capillary gel electrophoresis, Agilent 2100 Bioanalyzer). Internal control bands (240 kDa / 7 kDa / 4,5 kDa).



Application Data

Fig.1: FACS analysis of BOSC23 cells using NJ-4F3 Cat.# GM-0908. BOSC23 cells were transiently transfected with an expression vector encoding either S100 A4 (red curve) or an irrelevant protein (control transfectant: black curve). Binding of NJ-4F3 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with S100 A4 transfected cells.

ADDITIONAL INFORMATION

Related Product Information for anti-S100A4 antibody	Background: S100 calcium binding protein A4 (S100A4) is a member of the S100 family of calcium-binding proteins that contain two Ca(2+)-binding sites including a canonical EF-hand motif. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells. S100A4 interacts with cytoskeletal proteins and enhances metastasis of several types of cancer cells. It is secreted by unknown mechanisms, thus, paracrinely stimulating a variety of cellular responses, including angiogenesis and neuronal growth (1). S100A4 has been shown to be a prognostic marker in a number of human cancers, including esophageal-squamous cancers, non-small lung cancers, primary gastric cancers, malignant melanomas, prostate cancers, bladder cancers, and pancreatic carcinomas. The universality of S100A4 expression in a variety of cancers illustrates the potential use of S100A4 as a marker for tumor metastasis and disease progression (2).
References	Schneider M, Hansen JL, Sheikh SP (2008). S100A4: a common mediator of epithelialmesenchymal transition, fibrosis and regeneration in diseases? J Mol Med Mar 6 Garrett SC, Varney KM, Weber DJ and Bresnick AR (2006). S100A4, a Mediator of Metastasis. J Biol Chem, 281(2): 677-680

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506765
NCBI GeneID	6275
NCBI Accession #	NP_002952.1
NCBI GenBank Nucleotide #	NM_002961.2
UniProt Accession #	P26447; Q6ICP8; A8K7R8; D3DV46
Molecular Weight	11,729 Da
NCBI Official Full Name	protein S100-A4
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
NCBI Protein Information	protein S100-A4; protein Mts1; fibroblast-specific protein-1; placental calcium-binding protein; malignant transformation suppression 1; leukemia multidrug resistance associated protein; S100 calcium-binding protein A4 (calcium protein, calvasculin, metastasin, murine placental homolog)
UniProt Gene Name	S100A4
UniProt Synonym Gene Names	CAPL; MTS1
UniProt Entry Name	S10A4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.