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Product datasheet for DM1222

S100A4 Mouse Monoclonal Antibody [Clone ID: NJ-4F3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	NJ-4F3
Applications:	ELISA, FC, WB
Recommended Dilution:	**Flow cytometry:** 1.2 µg/10^6 cells. **ELISA:** 1/200-1/400. **ELISA (capture):** Clone NJ-4F3-D1 as detection antibody. **ELISA (detection):** Clone NJ-5C6-A3 as capture antibody. **Cell based ELISA** with intakt, transiently transfected cells: 1/200-1/400.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Genetic immunisation with cDNA encoding S100A4. **Selection:** based on recognition of the complete **native protein** expressed on transfected mammalian cells.
Specificity:	Recognizes Human S100 Calcium Binding Protein A4 (S100A4). Other species not tested.
Formulation:	Phosphate buffered saline, pH 7.2 State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	S100 calcium binding protein A4
Database Link:	Entrez Gene 6275 Human P26447

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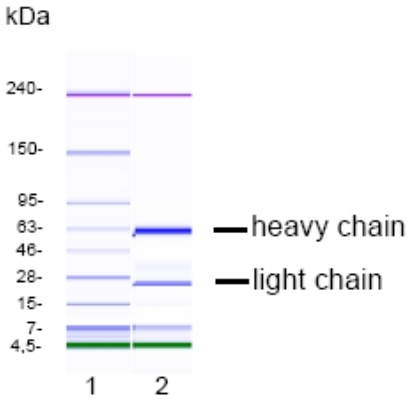
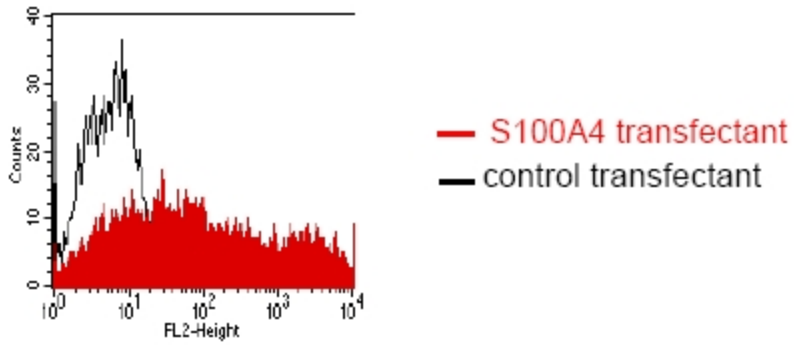
Background: S100 calcium binding protein A4 (S100A4) is a member of the S100 family of calcium-binding proteins that contain two Ca(2+)-binding sites including a canonical EF-hand motif. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells. S100A4 interacts with cytoskeletal 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).

Synonyms: S100-A4, CAPL, MTS1, Calvasculin, Metastasin, FSP-1, FSP1, Fibroblast marker, Fibroblast specific protein-1

Product images:



SDS-PAGE analysis of purified NJ-4F3 Antibody : Lane 1: Molecular weight marker. Lane 2: 2 ug 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).



FACS analysis of BOSC23 cells using NJ-4F3 Antibody DM122:. BOSC23 cells were transiently transfected with anexpression vector encoding either S100A4 (red curve) or anirrelevant protein (Control transfectant: black curve). Binding of NJ-4F3 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with S100A4 trans-fected cells.

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