

S100A4 Antibody
Rabbit mAb
Catalog # AP90800

Specification

S100A4 Antibody - Product Information

Application	WB, IHC, FC, ICC, IP
Primary Accession	P26447
Reactivity	Rat
Clonality	Monoclonal

Other Names

18A2; 42A; calcium Placental protein; Calcium protein; Calvasculin; CAPL; Fibroblast specific protein 1; FSP1; Metastasin; MTS1; S100 calcium binding protein A4;

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	11729 Da

S100A4 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human S100A4

Description	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. This protein may function in motility, invasion, and tubulin polymerization. Chromosomal rearrangements and altered expression of this gene have been implicated in tumor metastasis.
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Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
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S100A4 Antibody - Protein Information

Name S100A4

Synonyms CAPL, MTS1

Function

Calcium-binding protein that plays a role in various cellular processes including motility, angiogenesis, cell differentiation, apoptosis, and autophagy (PubMed:16707441, PubMed:23752197, PubMed:23752197, PubMed:23752197)

[30713770](http://www.uniprot.org/citations/30713770)). Increases cell motility and invasiveness by interacting with non-muscle myosin heavy chain (NMMHC) IIA/MYH9 (PubMed: [16707441](http://www.uniprot.org/citations/16707441)). Mechanistically, promotes filament depolymerization and increases the amount of soluble myosin-IIA, resulting in the formation of stable protrusions facilitating chemotaxis (By similarity). Modulates also the pro-apoptotic function of TP53 by binding to its C-terminal transactivation domain within the nucleus and reducing its protein levels (PubMed: [23752197](http://www.uniprot.org/citations/23752197)). Within the extracellular space, stimulates cytokine production including granulocyte colony-stimulating factor and CCL24 from T-lymphocytes (By similarity). In addition, stimulates T-lymphocyte chemotaxis by acting as a chemoattractant complex with PGLYRP1 that promotes lymphocyte migration via CCR5 and CXCR3 receptors (PubMed: [26654597](http://www.uniprot.org/citations/26654597)), PubMed: [30713770](http://www.uniprot.org/citations/30713770)).

Cellular Location

Secreted. Nucleus Cytoplasm {ECO:0000250|UniProtKB:P07091}

Tissue Location

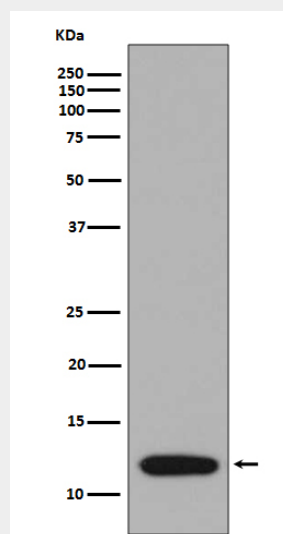
Ubiquitously expressed.

S100A4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

S100A4 Antibody - Images



Western blot analysis of S100A4 expression in A375 cell lysate.