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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.**
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.**

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:<a

href="http://www.uniprot.org/citations/30713770" target="_blank">30713770). Increases cell motility and invasiveness by interacting with non-muscle myosin heavy chain (NMMHC) IIA/MYH9 (PubMed: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). 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, PubMed:30713770).

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

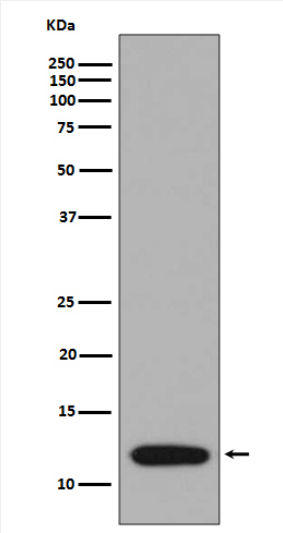
Tissue Location
Ubiquitously expressed.

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 Cytomety
- Cell Culture

S100A4 Antibody - Images



Western blot analysis of S100A4 expression in A375 cell lysate.