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S100A4 Antibody

Rabbit mAb
Catalog # AP90800

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	P26447
Reactivity	Rat, Human, Mouse
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

Additional Information

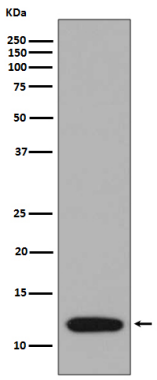
Dilution	WB 1:500~1:1000 IHC 1:100~1:500 ICC/IF 1:50~1:200 IP 1:40 FC 1:100
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human S100A4
Description	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. 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.

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: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). Also modulates 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.

Images



Western blot analysis of S100A4 expression in A375 cell lysate.

Image not found : 202311/AP90800-IHC.jpg	Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using S100A4 Antibody.
Image not found : 202311/AP90800-IF.jpg	Immunofluorescent analysis of HeLa cells, using S100A4 Antibody.
Image not found : 202311/AP90800-wb6.jpg	Fibulin-3 has anti-tumorigenic activities in cutaneous squamous cell carcinoma. -Journal of Investigative Dermatology

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.