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Anti-S100A4 Antibody
Mouse Monoclonal Antibody
Catalog # AP53395

Specification

Anti-S100A4 Antibody - Product Information

Application	**WB, IP**
Primary Accession	P26447
Other Accession	NM_002961
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Immunogen	**Recombinant human S100A4 protein.**
Purification	**Affinity purified**
Calculated MW	**12 KDa**

Anti-S100A4 Antibody - Additional Information

Gene ID 6275

Other Names
18A2; 42A; calcium Placental protein; Calvasculin; CAPL; Fibroblast specific protein 1; Fibroblast specific protein; FSP1; Leukemia multidrug resistance associated protein; Malignant transformation suppression 1; Metastasin; MTS1; OTTHUMP00000015467; OTTHUMP00000015468; P9KA; PEL98; Placental calcium-binding protein; Protein Mts1; Protein S100 A4; Protein S100-A4; S100 calcium binding protein A4 (calcium protein, calvasculin, metastasin, murine placental homolog); S100 calcium binding protein A4; S100 calcium-binding protein A4; S100a4; S10A4_HUMAN.

Dilution
WB~~1:500
IP~~N/A

Format
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Storage
Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Anti-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:<a

href="http://www.uniprot.org/citations/16707441" target="_blank">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}

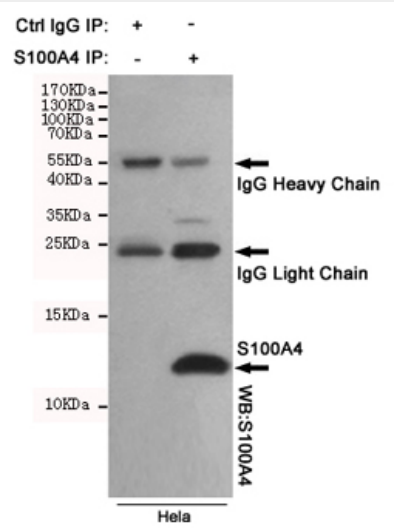
Tissue Location
Ubiquitously expressed.

Anti-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

Anti-S100A4 Antibody - Images



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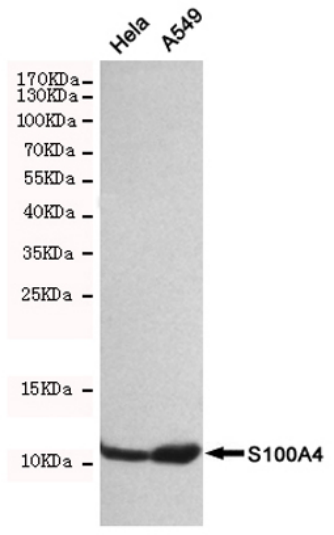
Immunoprecipitation analysis of Hela cell lysates using S100A4 mouse mAb.



Western blot detection of S100A4 in Hela and A549 cell lysates using S100A4 mouse mAb(dilution 1:500).Predicted band size:12kDa.Observed band size:12kDa.