10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-S100A4 Rabbit Monoclonal Antibody
Catalog # ABO13845

Specification

Anti-S100A4 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IHC, IF, ICC, IP, FC**
Primary Accession	P26447
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-S100A4 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-S100A4 Rabbit Monoclonal Antibody - Additional Information

Gene ID 6275

Other Names
Protein S100-A4, Calvasculin, Metastasin, Placental calcium-binding protein, Protein Mts1, S100 calcium-binding protein A4, S100A4, CAPL, MTS1

Calculated MW
11729 MW KDa

Application Details
WB 1:500-1:1000
IHC 1:100-1:500
ICC/IF 1:50-1:200
IP 1:40
FC 1:100

Tissue Specificity
Ubiquitously expressed.

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human S100A4

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-S100A4 Rabbit Monoclonal 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: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.

Anti-S100A4 Rabbit Monoclonal 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 Rabbit Monoclonal Antibody - Images

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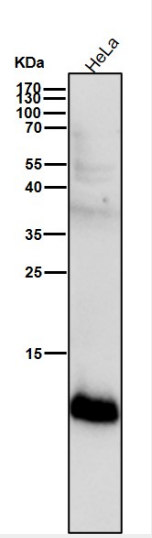
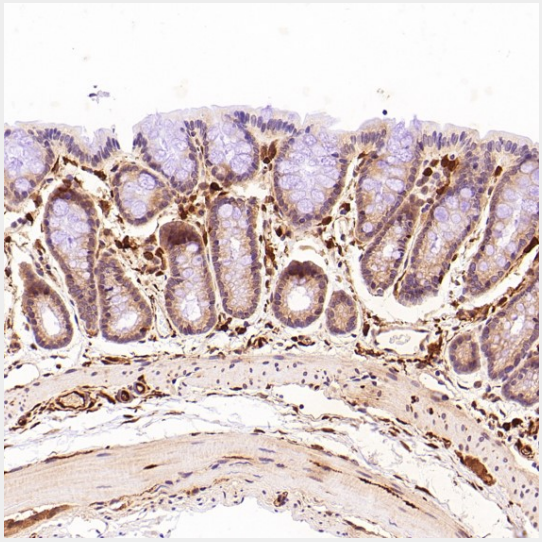
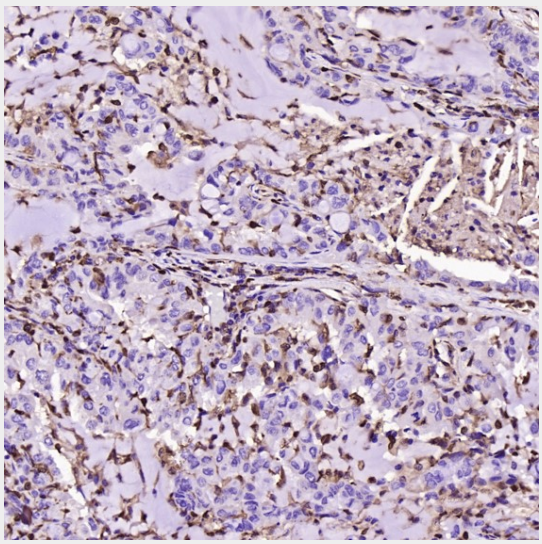


All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



Immunohistochemical analysis of paraffin-embedded Rat stomach, using the Antibody at 1:1000 dilution.



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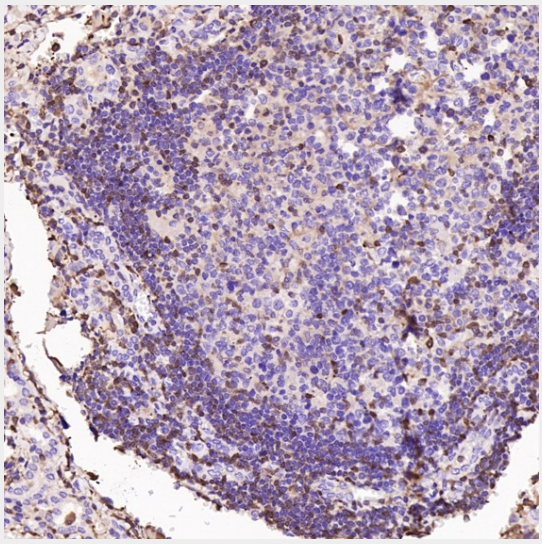
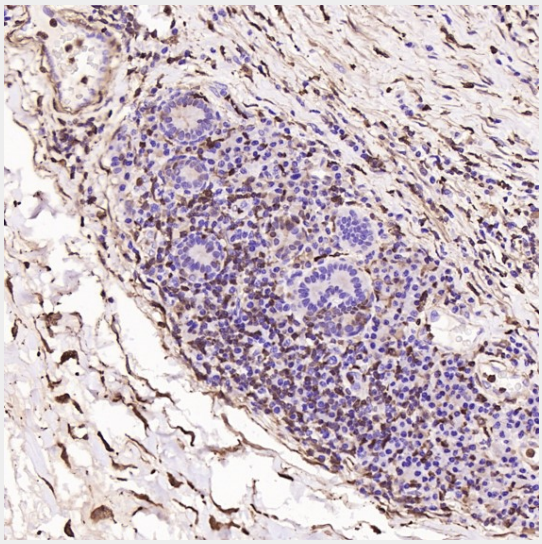
Immunohistochemical analysis of paraffin-embedded Human lung adenocarcinoma, using the Antibody at 1:500 dilution.



Immunohistochemical analysis of paraffin-embedded Human thyroid cancer, using the Antibody at 1:500 dilution.



Immunohistochemical analysis of paraffin-embedded Human esophageal carcinoma, using the Antibody at 1:500 dilution.

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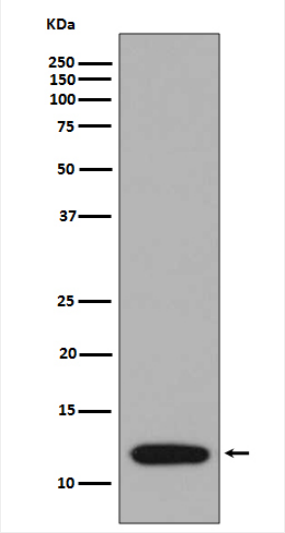
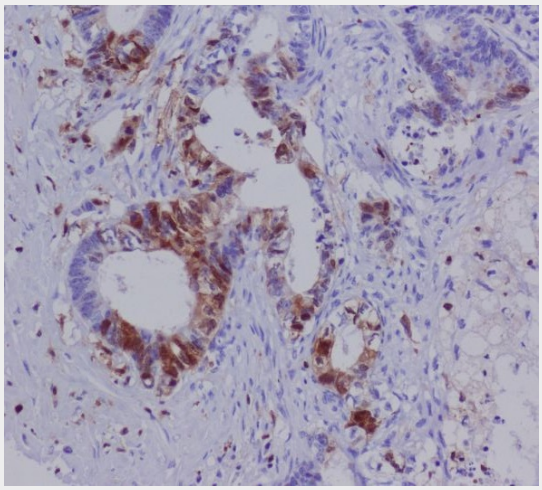
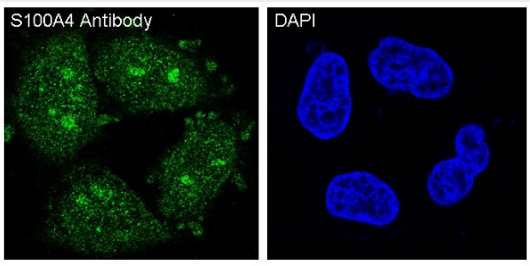


Western blot analysis of S100A4 expression in A375 cell lysate.



Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using S100A4 Antibody.



Immunofluorescent analysis of HeLa cells, using S100A4 Antibody.