

**Anti-S100A4 Rabbit Monoclonal Antibody**  
Catalog # ABO13845**Specification**

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**Anti-S100A4 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	<a href="#">P26447</a>
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<br>IHC 1:100-1:500<br>ICC/IF 1:50-1:200<br>IP 1:40<br>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:<a href="http://www.uniprot.org/citations/16707441" target="\_blank">16707441</a>, PubMed:<a href="http://www.uniprot.org/citations/23752197" target="\_blank">23752197</a>, PubMed:<a href="http://www.uniprot.org/citations/30713770" target="\_blank">30713770</a>). Increases cell motility and invasiveness by interacting with non-muscle myosin heavy chain (NMMHC) IIA/MYH9 (PubMed:<a href="http://www.uniprot.org/citations/16707441" target="\_blank">16707441</a>). 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:<a href="http://www.uniprot.org/citations/23752197" target="\_blank">23752197</a>). 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:<a href="http://www.uniprot.org/citations/26654597" target="\_blank">26654597</a>, PubMed:<a href="http://www.uniprot.org/citations/30713770" target="\_blank">30713770</a>).

### Cellular Location

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

### Tissue Location

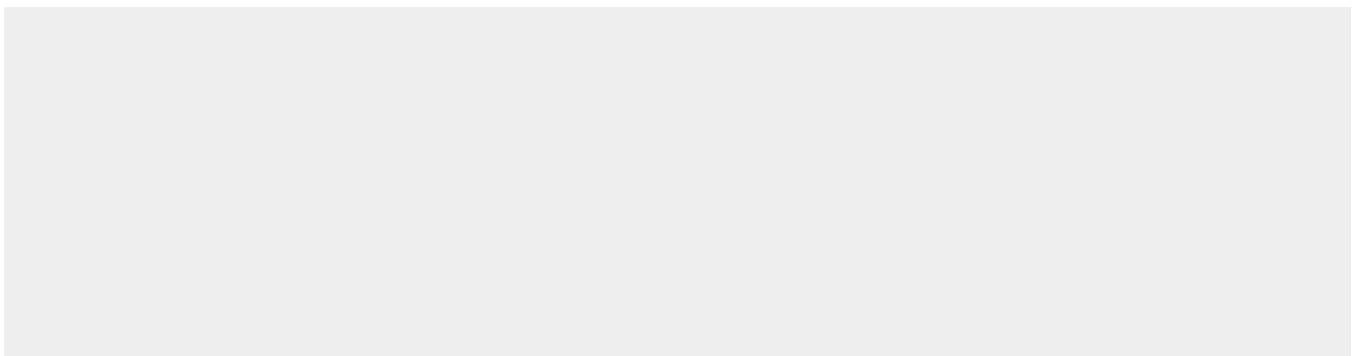
Ubiquitously expressed.

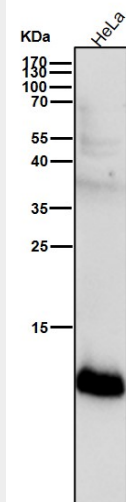
## Anti-S100A4 Rabbit Monoclonal Antibody - Protocols

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

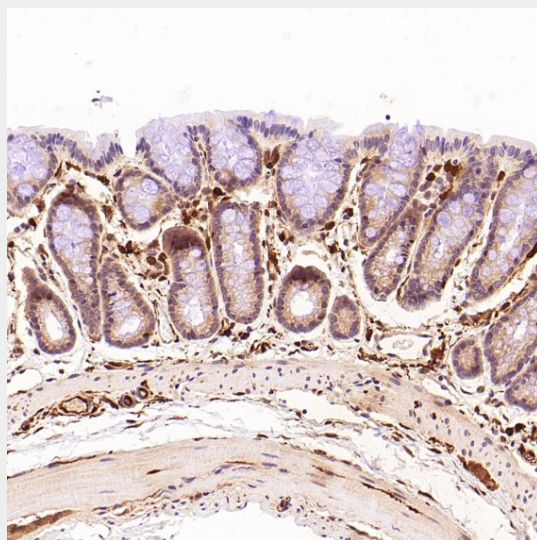
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-S100A4 Rabbit Monoclonal Antibody - Images

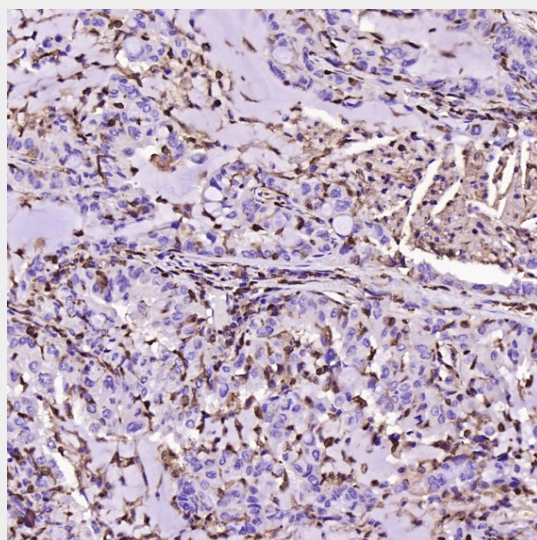




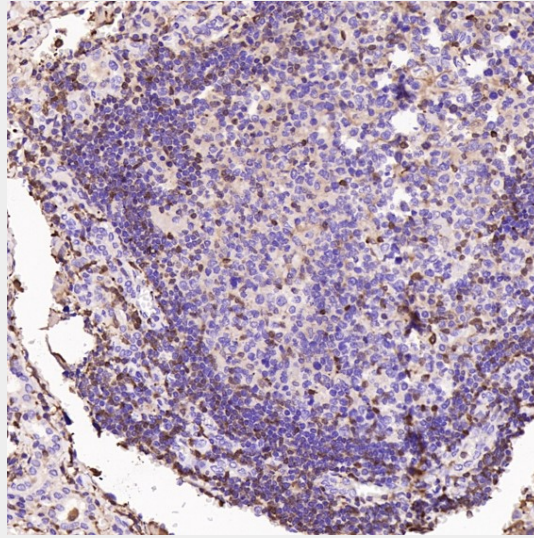
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



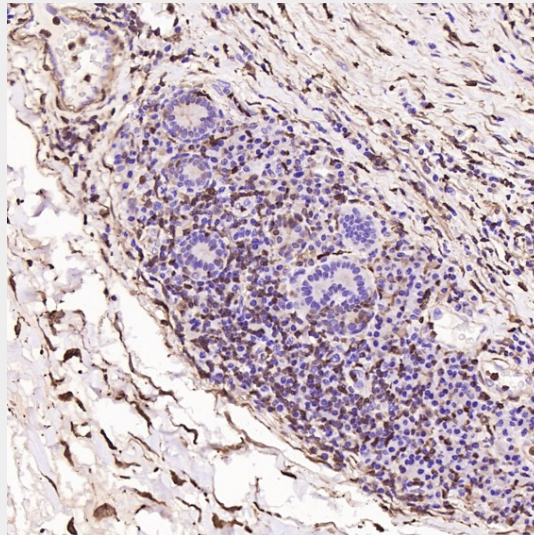
Immunohistochemical analysis of paraffin-embedded Rat stomach, using the Antibody at 1:1000 dilution.



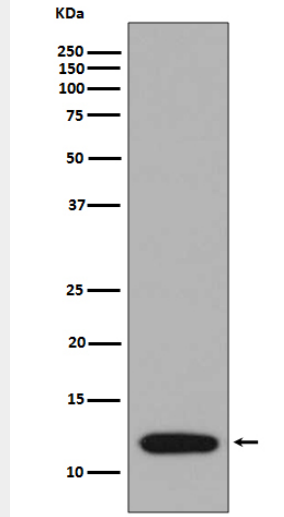
Immunohistochemical analysis of paraffin-embedded Human lung adenocarcinoma, using the Antibody at 1:500 dilution.



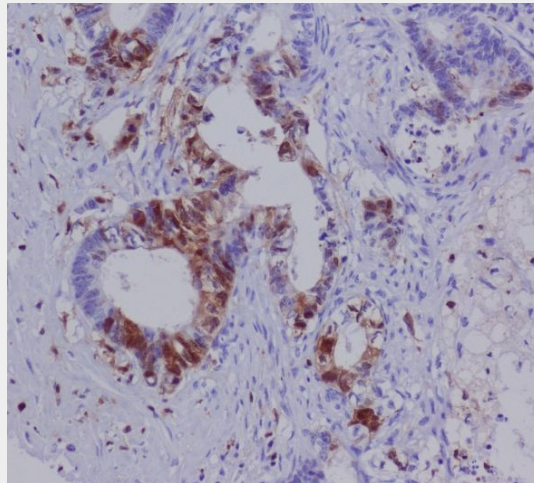
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer, using the Antibody at 1:500 dilution.



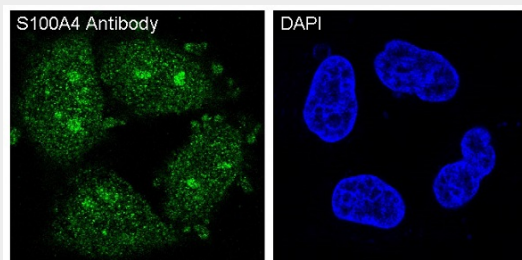
Immunohistochemical analysis of paraffin-embedded Human esophageal carcinoma, using the Antibody at 1:500 dilution.



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.