

S100A4 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP11782a**Specification**

S100A4 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [P26447](#)**S100A4 Antibody (N-term) Blocking peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

S100A4 Antibody (N-term) Blocking peptide - 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](http://www.uniprot.org/citations/16707441), PubMed: [23752197](http://www.uniprot.org/citations/23752197), PubMed: [30713770](http://www.uniprot.org/citations/30713770)). Increases cell motility and invasiveness by interacting with non-muscle myosin heavy chain (NMMHC) IIA/MYH9 (PubMed: [16707441](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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:30713770, PubMed:26654597).

Cellular Location

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

Tissue Location

Ubiquitously expressed.

S100A4 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

S100A4 Antibody (N-term) Blocking peptide - Images**S100A4 Antibody (N-term) Blocking peptide - Background**

The protein encoded by this gene is a member of the chromogranin/secretogranin family of neuroendocrine secretory proteins. It is found in secretory vesicles of neurons and endocrine cells. This gene product is a precursor to three biologically active peptides; vasostatin, pancreastatin, and parastatin. These peptides act as autocrine or paracrine negative modulators of the neuroendocrine system. Other peptides, including chromostatin, beta-granin, WE-14 and GE-25, are also derived from the full-length protein. However, biological activities for these molecules have not been shown.

S100A4 Antibody (N-term) Blocking peptide - References

Ezzi, S.A., et al. J. Neurochem. 115(5):1102-1111(2010) Ma, Z., et al. J. Urol. 184(3):1182-1188(2010) Ramella, R., et al. J. Cell. Biochem. 110(1):70-79(2010) Dag, E., et al. Peptides 31(5):932-937(2010) Xie, Y.Q., et al. Zhonghua Xin Xue Guan Bing Za Zhi 37(12):1081-1084(2009)