10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Specification

S100A4 Antibody (N-term) Blocking peptide - Product Information

Primary 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, 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: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 thechromogranin/secretogranin family of neuroendocrine secretoryproteins. It is found in secretory vesicles of neurons andendocrine cells. This gene product is a precursor to threebiologically active peptides; vasostatin, pancreastatin, andparastatin. These peptides act as autocrine or paracrine negativemodulators of the neuroendocrine system. Other peptides, includingchromostatin, beta-granin, WE-14 and GE-25, are also derived fromthe full-length protein. However, biological activities for thesemolecules 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)