

AP16925PU-N**Polyclonal Antibody to S100A4 (C-term) - Aff - Purified**

Alternate names:	CAPL, Calvasculin, FSP-1, FSP1, Fibroblast marker, Fibroblast specific protein-1, MTS1, Metastasin, Placental Calcium-Binding Protein, S100 Calcium-Binding Protein A4, S100-A4
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	S100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S100A is composed of an alpha and beta chain whereas S100B is composed of two beta chains. S100 protein is also expressed in the antigen presenting cells such as the Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes. S100A4 has been implicated in motility, invasion and tubulin polymerization. It is also involved in tumor metastasis.
Uniprot ID:	P26447
NCBI:	9606
GeneID:	6275
Host:	Goat
Immunogen:	Synthetic peptide from the C-terminus of Human S100A4 (NP_002952.1 and NP_062427.1) Genename: S100A4 AA Sequence: CNEFFEGFPDKQP Remarks: Both variants (NP_002952.1; NP_062427.1) represent identical protein.
Format:	State: Liquid purified Ig fraction Purification: Ammonium sulphate precipitation followed by Antigen Affinity Chromatography using the immunizing peptide Buffer System: Tris saline, pH~7.3 Preservatives: 0.02% Sodium azide Stabilizers: 0.5% BSA
Applications:	Peptide ELISA: 1/128,000 (Detection Limit). Western blot: 0.03-0.1 µg/ml. Approx 13 kDa band observed in Human placenta lysates. Immunohistochemistry on Paraffin Sections: 2-3 µg/ml. In paraffin-embedded human small intestine shows strong nuclear staining in some cells and weaker cytoplasm staining in some other cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	11.7 kDa (NP_002952.1 and NP_062427.1).
Specificity:	This antibody recognizes S100A4 / CAPL.

- Species Reactivity:** **Tested:** Human.
Expected from sequence similarity: Mouse, Rat, Canine (Dog).
- Storage:** Upon receipt, store undiluted (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.
- Product Citations:** **Purchased from Acris:**
1. Nakasatomi M, Maeshima A, Mishima K, Ikeuchi H, Sakairi T, Kaneko Y, et al. Novel approach for the detection of tubular cell migration into the interstitium during renal fibrosis in rats. *Fibrogenesis Tissue Repair*. 2015 Jul 10;8:12. doi: 10.1186/s13069-015-0030-0. eCollection 2015. PubMed PMID: 26161140.
- General Readings:** 1. Li ZH, Bresnick AR. The S100A4 metastasis factor regulates cellular motility via a direct interaction with myosin-IIA. *Cancer Res*. 2006 May 15;66(10):5173-80. PubMed PMID: 16707441.
- Pictures:** TA303160 (0.03µg/ml) staining of Human Placenta lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

