

## Polyclonal Antibody to S100A4 - Serum

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| <b>Alternate names:</b> | CAPL, Calvasculin, FSP-1, FSP1, Fibroblast marker, Fibroblast specific protein-1, MTS1, Metastasin, Placental Calcium-Binding Protein, S100 Calcium-Binding Protein A4, S100-A4  |
| <b>Catalog No.:</b>     | AP00588SU-N  |
| <b>Quantity:</b>        | 0.5 ml   |
| <b>Background:</b>      | <p>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.</p> <p>S100A4 belongs to the S100 family of calcium binding proteins. It is ubiquitously expressed and interacts with PPFIBP1 in a calcium-dependent mode.</p> |
| <b>Uniprot ID:</b>      | <a href="#">P26447</a>   |
| <b>NCBI:</b>            | <a href="#">NP_002952.1</a>  |
| <b>GeneID:</b>          | <a href="#">6275</a>   |
| <b>Host:</b>            | Rabbit   |
| <b>Immunogen:</b>       | Purified recombinant human S100A4 monomer expressed in E. coli.<br><b>Remarks: Mol. Wt. of Antigen:</b> 10-12 kDa.   |
| <b>Format:</b>          | <b>State:</b> Liquid antiserum.<br><b>Buffer System:</b> 10 mM PBS, pH 7.4 containing 0.2% BSA as stabilizer and 0.09% Sodium Azide as preservative.   |
| <b>Applications:</b>    | <b>Immunohistology (Formalin/Paraffin):</b> Use Ab at 1/100-1/200 for 30 min at RT. Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10 mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.<br><i>Positive Control:</i> Tonsil.<br>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.   |
| <b>Specificity:</b>     | Highly specific for S100A4.<br>No reactivity with other S100 family members.<br>This antibody labels fibroblasts, neuronal structures, T lymphocytes, plasma cells and Kupffer cells in normal tissues.<br>Cellular Localization: Cytoplasmic, membrane and nuclear.<br><b>Species:</b> Human, Mouse, Rat, Bovine, Horse, Cat and Dog.<br>Other species not tested.  |

**Storage:** Store the antibody (undiluted) at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freeze thaw cycles!  
Shelf life: One year from despatch.

**General Readings:** 1. Schafer B W, et al. (1996) Trends Biochem Sci, 21:134-140.  
2. Ilg E C, et al. (1996) Intl J Cancer, 68:325-332.

**Pictures:** Formalin-fixed, paraffin-embedded human tonsil stained with S100A4 (Cat. AP0588SU-N) using peroxidase-conjugate and AEC chromogen. Note membrane staining of lymphocytes.

