

## AR39020PU-L

## Mouse S100A4 (1-101, His-tag) - Purified

|                          |                                                                                                                                                                                                                                                                                                                                                                                                     |
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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>Quantity:</b>         | 0.5 mg                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Concentration:</b>    | 1.0 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                            |
| <b>Background:</b>       | S100A4 belongs to the S100 super-family of proteins containing 2 EF-hand calcium binding domains. This protein is ubiquitously overexpressed and is localized in the cytoplasm and/or nucleus. S100A4 may play a role in motility, invasion, and tubulin polymerization. Chromosomal rearrangements and altered expression of the S100A4 have been implicated in tumor metastasis.                  |
| <b>Uniprot ID:</b>       | <a href="#">P07091</a>                                                                                                                                                                                                                                                                                                                                                                              |
| <b>NCBI:</b>             | <a href="#">NP_035441</a>                                                                                                                                                                                                                                                                                                                                                                           |
| <b>GeneID:</b>           | <a href="#">20198</a>                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species:</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source:</b>           | E. coli                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Format:</b>           | <b>State:</b> Liquid purified protein<br><b>Purity:</b> >90%<br><b>Buffer System:</b> 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 0.1M NaCl                                                                                                                                                                                                                                     |
| <b>Description:</b>      | Recombinant mouse S100A4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.<br><b>AA Sequence:</b><br><u>MGSSHHHHHH SSGLVPRGSH</u> MARPLEEALD VIVSTFHKYS GKEGDKFKLN KTELKELLTR ELPSFLGKRT DEAAFQKVMS NLDSNRDNEV DFQEYCVFLS CIAMMCNEFF EGCPDKEPRK K<br><b>Molecular weight:</b> 13.9 kDa (121aa), confirmed by MALDI-TOF |
| <b>Storage:</b>          | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.                                                                                                                                                                                                                          |
| <b>General Readings:</b> | Sherbet GV., et al. (2009) Cancer Lett. 280(1):15-30.                                                                                                                                                                                                                                                                                                                                               |

**Pictures:**

Recombinant mouse S100A4, 1-101 aa,  
His-tagged

