

## Recombinant Human S100A4

**Cat. No.** S100A4-89H    **Lot. No.** (See product label)

### SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>        | Recombinant Human S100A4 was expressed in E. coli and purified using Glutathione sepharose affinity .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>                  | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>             | <p>S100 proteins belong to the family of calcium binding proteins such as Calmodulin and Troponin C. Members of the S100 protein family are multifunctional proteins implicated in the regulation of a variety of cellular activities and have both intracellular and extracellular activities. S100 proteins have no enzymatic activity and interact with several effector proteins within cells to regulate enzyme activities, dynamics of cytoskeleton constituents, cell growth and differentiation and Ca<sup>2+</sup> homeostasis.</p> <p>S100 alpha is composed of an alpha and beta chain whereas S100 beta is composed of two beta chains. S100 protein is also expressed in antigen presenting cells such as Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes.</p> |
| <b>Predicted MolecularMass</b> | ~40kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Formulation</b>             | Liquid. In TRIS-acetate, pH 7.5, containing 1mM EDTA and 20% glycerol. No BSA or sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Application</b>             | ELISA; WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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**Long Term Storage** -80°C

**OfficialSymbol** S100A4

## GENE INFORMATION

**Gene Name** S100A4 S100 calcium binding protein A4 [ Homo sapiens ]

**Synonyms**

S100A4; 18A2; 42A; CAPL; FSP1; MTS1; P9KA; PEL98; Metastasin; S100 calcium-binding protein A4; fibroblast-specific protein-1; malignant transformation suppression 1; leukemia multidrug resistance associated protein; S100 calcium binding protein A4 (calcium protein, calvasculin, metastasin, murine placental homolog); Calvasculin; OTTHUMP00000015467; OTTHUMP00000015468; OTTHUMP00000015469; OTTHUMP00000032895; Placental calcium-binding protein; Protein Mts1; S100 calcium binding protein A4; S100 calcium-binding protein A4 (calcium protein,calvasculin, metastasin, murine placental homolog).

**Gene ID** 6275

**mRNA Refseq** NM\_002961

**Protein Refseq** NP\_002952

**MIM** 114210

**UniProt ID** P26447

**Chromosome Location** 1q21

**Function** calcium ion binding, identical protein binding

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