

# Anti-S100A4 Reference Antibody (LK-1)

Recombinant Antibody Catalog # APR10469

### Specification

## Anti-S100A4 Reference Antibody (LK-1) - Product Information

Application Primary Accession Reactivity Clonality Isotype Calculated MW FC, Kinetics, Animal Model <u>P26447</u> Human, Mouse Monoclonal IgG1 150 KDa

#### Anti-S100A4 Reference Antibody (LK-1) - Additional Information

Target/Specificity S100A4

**Endotoxin** < 0.001EU/ μg,determined by LAL method.

Conjugation Unconjugated

Expression system CHO Cell

Format

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

#### Anti-S100A4 Reference Antibody (LK-1) - 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:<a href="http://www.uniprot.org/citations/16707441" target="\_blank">16707441</a>, PubMed:<a href="http://www.uniprot.org/citations/23752197" target="\_blank">23752197</a>, PubMed:<a href="http://www.uniprot.org/citations/30713770" target="\_blank">30713770</a>). Increases cell motility and invasiveness by interacting with non-muscle myosin heavy chain (NMMHC) IIA/MYH9 (PubMed:<a href="http://www.uniprot.org/citations/16707441" target="\_blank">16707441</a>). Mechanistically, promotes filament depolymerization and increases the amount of soluble myosin-IIA, resulting in the formation of stable protrusions facilitating chemotaxis (By similarity). Also modulates the pro-apoptotic function of TP53 by



binding to its C-terminal transactivation domain within the nucleus and reducing its protein levels (PubMed:<a href="http://www.uniprot.org/citations/23752197" target="\_blank">23752197</a>). 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:<a href="http://www.uniprot.org/citations/26654597" target=" blank">26654597</a>, PubMed:<a

href="http://www.uniprot.org/citations/30713770" target="\_blank">30713770</a>).

Cellular Location Secreted. Nucleus Cytoplasm {ECO:0000250|UniProtKB:P07091}

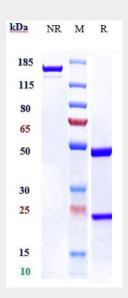
**Tissue Location** Ubiquitously expressed.

#### Anti-S100A4 Reference Antibody (LK-1) - Protocols

Provided below are standard protocols that you may find useful for product applications.

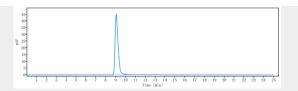
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-S100A4 Reference Antibody (LK-1) - Images



Anti-S100A4 Reference Antibody (LK-1) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%





The purity of Anti-S100A4 Reference Antibody (LK-1)is more than 95% ,determined by SEC-HPLC.