

# Human S100A4 antibody

Catalog Number: ATGA0384

## PRODUCT INFORMATION

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**Catalog number**

ATGA0384

**Clone No.**

AT1C3

**Product type**

Monoclonal Antibody

**UnitProt No.**

P26447

**NCBI Accession No.**

NP\_002952

**Alternative Names**

S100 calcium binding protein A4, 18A2, 42a, Capl, FSp1, metastasin, Mts1, PeL98, pk9a

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human S100A4 (1-101aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

**Storage**

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

S100 calcium-binding protein A4 (S100A4) is member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. This protein may function in motility, invasion, and tubulin polymerization. Chromosomal rearrangements and altered expression of this gene have been implicated in tumor metastasis. Multiple alternatively spliced variants, encoding the same protein, have been identified.

### General References

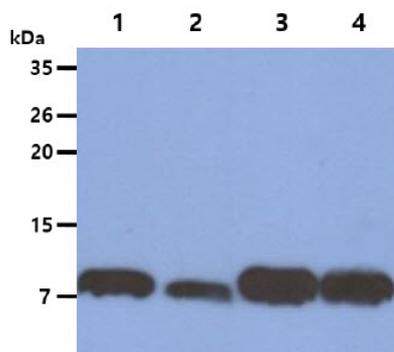
Stoler A., et al. (1985) Proc Natl Acad Sci USA. 82(2): 570-574.

Choudhary C., et al. (2009) Science. 325: 834-840.

Bian Y., et al. (2014) J Proteomics. 96: 253-262.

## DATA

### Western blot analysis (WB)



The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human S100A4 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

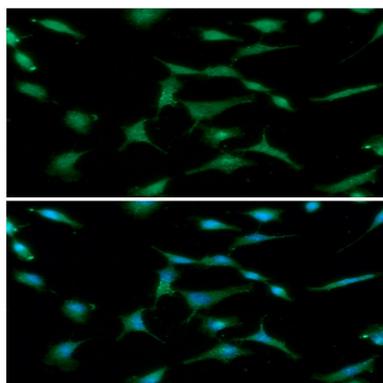
Lane 1. : HeLa cell lysate

Lane 2. : A549 cell lysate

Lane 3. : NIH/3T3 cell lysate

Lane 4. : 3T3-L1 cell lysate

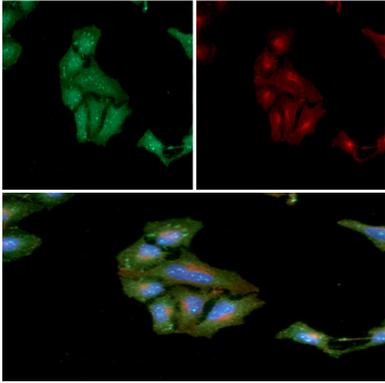
### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of S100A4 in A549 cells. The cell was stained with ATGA0384 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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ICC/IF analysis of S100A4 in HeLa cells line, stained with DAPI (Blue) for nucleus staining, Wheat germ agglutinin (WGA) with fluorescein conjugate (Red) for plasma membrane staining and monoclonal anti-human S100A4 antibody