

For Research Use Only

CoraLite®594-conjugated S100A4 Polyclonal antibody

Catalog Number: CL594-16105

Featured Product

1 Publications



Basic Information

Catalog Number:

CL594-16105

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9019

GenBank Accession Number:

BC016300

GeneID (NCBI):

6275

ENSEMBL Gene ID:

ENSG00000196154

UNIPROT ID:

P26447

Full Name:

S100 calcium binding protein A4

Calculated MW:

101 aa, 12 kDa

Observed MW:

10-12 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Cited Applications:

IF

Species Specificity:

human, mouse

Positive Controls:

IF/ICC : HeLa cells,

FC (Intra) : HeLa cells, Jurkat cells

Background Information

S100A4 is a member of the S100 family of calcium-binding proteins. The S100 family members have been involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100A4 is known to localize to and function in the nucleus, cytoplasm of cells, and the extracellular space. S100A4 has also been shown to be associated with tumor growth, motility, invasion, metastasis, angiogenesis, apoptosis, and chemoresistance. It is a fibroblast-specific protein associated with mesenchymal cell morphology and motility, is expressed during epithelial-mesenchymal transformations (EMT) in vivo (PMID: 9362334). It is a specific prognostic marker for renal survival in patients with IgAN (PMID: 16105038). It is also an improved marker for lung fibroblasts that could be useful for investigating the pathogenesis of pulmonary fibrosis (PMID: 15618458). Overexpression of S100A4 is correlated with a worse prognosis in patients with various types of cancer.

Notable Publications

Author	Pubmed ID	Journal	Application
Chengbin Ding	39879993	Cell Rep Med	IF

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

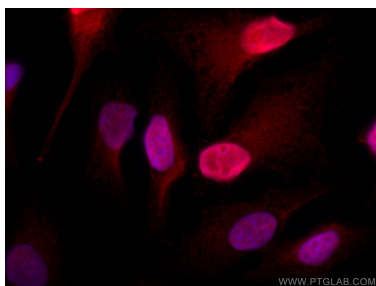
T: 4006900926

E: Proteintech-CN@ptglab.com

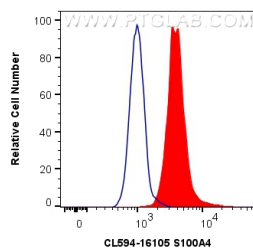
W: ptgcn.com

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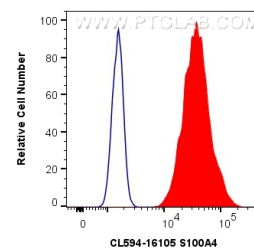
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite®594 S100A4 antibody (CL594-16105) at dilution of 1:200.



1X10⁶ Jurkat cells were intracellularly stained with 0.8 ug CoraLite®594 Anti-Human S100A4 (CL594-16105) (red), or 0.8 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human S100A4 (CL594-16105) (red), or 0.4 ug CoraLite®594-conjugated Rabbit IgG control Rabbit PolyAb (CL594-30000, Clone:) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).