

For Research Use Only

# S100A4 Monoclonal antibody, PBS Only



Catalog Number: 66489-1-PBS

Featured Product

## Basic Information

<b>Catalog Number:</b> 66489-1-PBS	<b>GenBank Accession Number:</b> BC016300	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 6275	<b>CloneNo.:</b> 2G11B4
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000196154	
<b>Isotype:</b> IgG2a	<b>UNIPROT ID:</b> P26447	
<b>Immunogen Catalog Number:</b> AG9019	<b>Full Name:</b> S100 calcium binding protein A4	
	<b>Calculated MW:</b> 101 aa, 12 kDa	
	<b>Observed MW:</b> 12 kDa	

## Applications

**Tested Applications:**  
WB,IHC,IF,ELISA

**Species Specificity:**  
Human, mouse

## 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.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS only

Aliquoting is unnecessary for -20°C storage

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

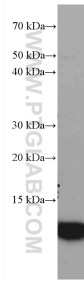
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

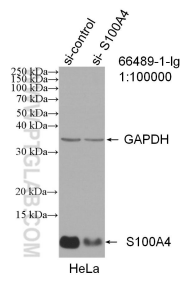
W: [ptgcn.com](http://ptgcn.com)

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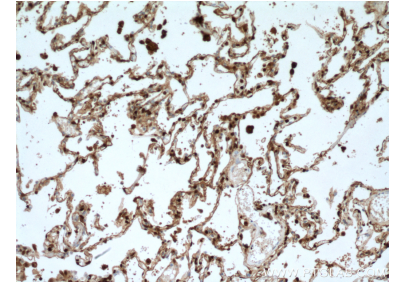
## Selected Validation Data



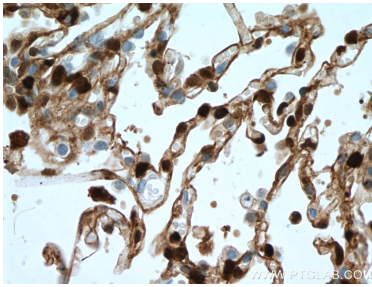
HeLa cells were subjected to SDS PAGE followed by western blot with 66489-1-Ig (S100A4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66489-1-PBS in a different storage buffer formulation.



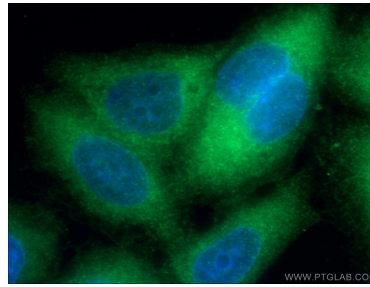
WB result of S100A4 antibody (66489-1-Ig; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-S100A4 transfected HeLa cells. This data was developed using the same antibody clone with 66489-1-PBS in a different storage buffer formulation.



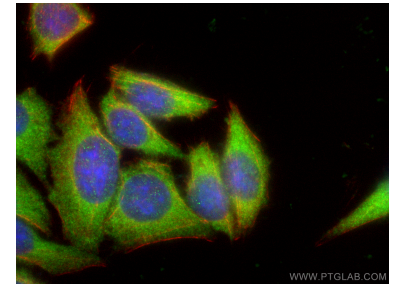
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66489-1-Ig (S100A4 antibody) at dilution of 1:4000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66489-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66489-1-Ig (S100A4 antibody) at dilution of 1:4000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66489-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 66489-1-Ig (S100A4 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66489-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using S100A4 antibody (66489-1-Ig, Clone: 2G11B4) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red). This data was developed using the same antibody clone with 66489-1-PBS in a different storage buffer formulation.