For Research Use Only

S100A4 Polyclonal antibody

Catalog Number:16105-1-AP

Featured Product

65 Publications



GenBank Accession Number: **Purification Method:** Catalog Number: **Basic Information** 16105-1-AP BC016300 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 500 ug/ml by 6275 WB: 1:5000-1:50000 Nanodrop: IHC: 1:50-1:500 ENSEMBL Gene ID: IF/ICC: 1:200-1:800 Source ENSG00000196154 FC (Intra): 0.25 ug per 10^6 cells in a Rabbit UNIPROT ID: 100 µl suspension Isotype P26447 lgG Full Name: Immunogen Catalog Number: S100 calcium binding protein A4 AG9019 Calculated MW: 101 aa, 12 kDa **Observed MW:** 10-12 kDa **Tested Applications: Positive Controls: Applications** WB, IHC, IF/ICC, FC (Intra), ELISA WB: A549 cells, HeLa cells, NIH/3T3 cells **Cited Applications:** IHC : human breast cancer tissue, human pancreas WB, IHC, IF, IP, ELISA cancer tissue, human colon cancer tissue, mouse **Species Specificity:** spleen tissue human, mouse IF/ICC : HeLa cells, **Cited Species:** FC (Intra) : HeLa cells, human, mouse, rat, pig Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 S100A4 is a member of the S100 family of calcium-binding proteins. The S100 family members have been involved **Background Information** in the regulation of a number of cellular processes such as cell cycle progression and differentiation. \$100A4 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 inpatients with various types of cancer. **Notable Publications** Author Pubmed ID Journal Application Fei Yao WBIF 36163271 Inflamm Regen Yixin Ren 30372905 **Biomed Pharmacother** IHC Kexin Ma 32961493 Ecotoxicol Environ Saf WB **Storage** Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage *** 20ul sizes contain 0.1% BSA For technical support and original validation data for this product please contact: This product is exclusively available under Proteintech E: proteintech@ptglab.com

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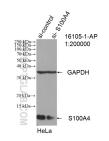
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Group brand and is not available to purchase from any other manufacturer.

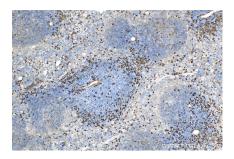
Selected Validation Data



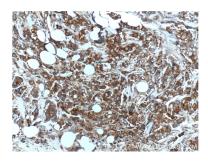
Various lysates were subjected to SDS PAGE followed by western blot with 16105-1-AP (S100A4 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



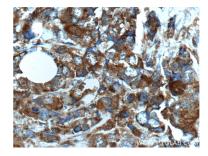
WB result of S100A4 antibody (16105-1-AP; 1:200000; incubated at room temperature for 1.5 hours) with sh-Control and sh-S100A4 transfected HeLa cells.



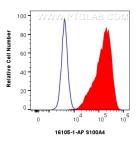
Immunohistochemical analysis of paraffinembedded mouse spleen tissue slide using 16105-1-AP (S100A4 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



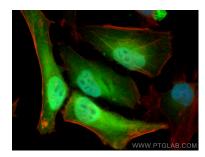
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 16105-1-AP (S100A4 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 16105-1-AP (S100A4 Antibody) at dilution of 1:200 (under 40x lens).



1x10^6 HeLa cells were intracellularly stained with 0.25 ug FSP1/S100A4 Polyclonal antibody (16105-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using S100A4 antibody (16105-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).