

For Research Use Only

S100A6 Monoclonal antibody

Catalog Number: 66098-1-Ig 1 Publications



Basic Information

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| Catalog Number: 66098-1-Ig | GenBank Accession Number: BC001431 | Purification Method: Protein G purification |
| Size: 150ul , Concentration: 800 ug/ml by Nanodrop and 600 ug/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 6277 | CloneNo.: 3D11C8 |
| Source: Mouse | UNIPROT ID: P06703 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:200-1:800 |
| Isotype: IgG1 | Full Name: S100 calcium binding protein A6 | |
| Immunogen Catalog Number: AG17606 | Calculated MW: 10 kDa | |
| | Observed MW: 10 kDa | |

Applications

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| Tested Applications: WB, IHC, IF/ICC, ELISA | Positive Controls: WB : HeLa cells, A549 cells |
| Cited Applications: WB | IHC : human colon cancer tissue, human liver cancer tissue, human pancreas cancer tissue |
| Species Specificity: human | IF/ICC : HepG2 cells, |
| Cited Species: human | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

S100A6 is also named as calcyclin, prolactin receptor-associated protein (PRA), growth factor-inducible protein 2A9 or MLN4. It belongs to S100 family of low molecular weight, acidic, calcium-binding proteins which contain two EF-hand calcium binding sites. S100A6 may function as a calcium sensor to activate several processes in the calcium signal transduction pathway of cell growth, proliferation, secretion and exocytosis. Although S100A6 is a cytoplasmic protein, it can be located in the nuclear and cytoplasmic membranes in the presence of Ca²⁺ (PMID: 37670392).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|-----------------|-------------|
| Dongqiang Song | 33335992 | Open Med (Wars) | WB |

Storage

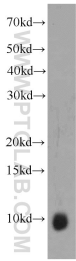
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

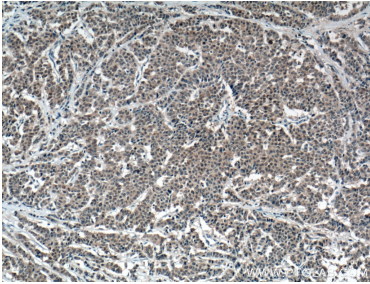
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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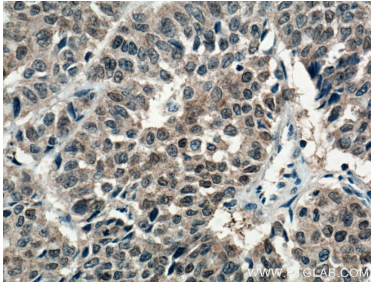
Selected Validation Data



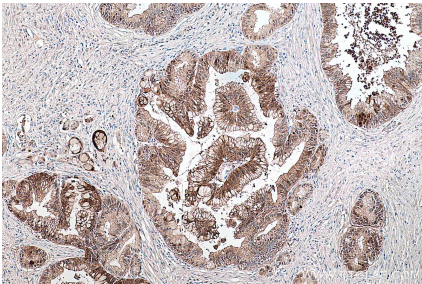
HeLa cells were subjected to SDS PAGE followed by western blot with 66098-1-Ig (S100A6 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



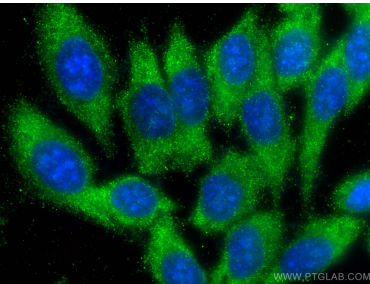
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66098-1-Ig (S100A6 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66098-1-Ig (S100A6 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66098-1-Ig (S100A6 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using S100A6 antibody (66098-1-Ig, Clone: 3D11C8) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).