

For Research Use Only

S100A16 Polyclonal antibody

Catalog Number: 11456-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

11456-1-AP

Size:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2023

GenBank Accession Number:

BC019099

GeneID (NCBI):

140576

UNIPROT ID:

Q96FQ6

Full Name:

S100 calcium binding protein A16

Calculated MW:

103 aa, 12 kDa

Observed MW:

9-12 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

IF 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, IHC, ELISA

Cited Applications:

WB, IP, IF, IHC

Species Specificity:

human, mouse

Cited Species:

human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A431 cells, DU 145 cells, MCF-7 cells

IHC : human lung cancer tissue, human colon cancer tissue, mouse lung tissue

IF : MCF-7 cells,

Background Information

S100A16 is a member of the S100 protein family. S100A16 is expressed in a variety of human tissues. S100A16 expression is especially high in tissues rich in epithelial cells. Functionally, S100A16 has been linked to several aspects of tumorigenesis, for example, cell proliferation, differentiation, migration, invasion, and epithelial-mesenchymal transition (EMT). Accordingly, S100A16 has been suggested to have both tumour-promoting and suppressive roles in human cancers. S100A16-mediated cellular functions are suggested to be mediated by the regulation of various signaling pathways/proteins including EMT-related proteins E-cadherin and Vimentin, PI3K-AKT, p53, MMP1-1, MMP-2, MMP-9, JNK/p38, etc. (PMID: 37509106).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoying You	34650982	Front Cell Dev Biol	WB,IP
Sapkota Dipak D	24086685	PLoS One	WB,IHC,IP
Xu Sun	28876468	J Surg Oncol	IHC

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

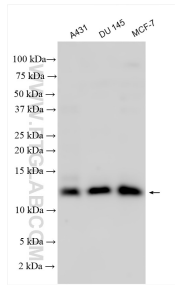
T: 4006900926

E: Proteintech-CN@ptglab.com

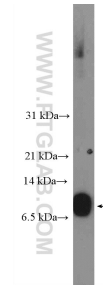
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

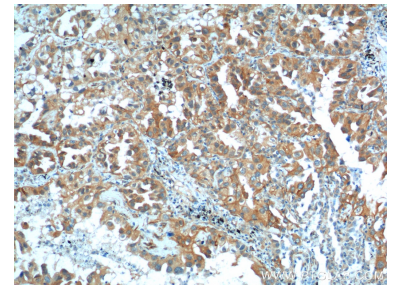
Selected Validation Data



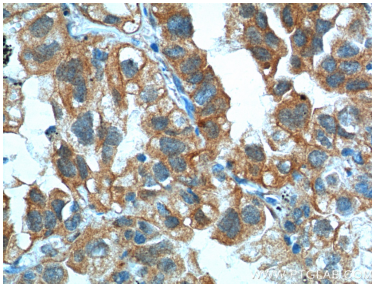
Various lysates were subjected to SDS PAGE followed by western blot with 11456-1-AP (S100A16 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



A431 cells were subjected to SDS PAGE followed by western blot with 11456-1-AP (S100A16 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11456-1-AP (S100A16 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11456-1-AP (S100A16 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using S100A16 antibody (11456-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).