

For Research Use Only

# S100A14 Polyclonal antibody

Catalog Number: 10489-1-AP

Featured Product

28 Publications



## Basic Information

### Catalog Number:

10489-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 500 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0757

### GenBank Accession Number:

BC005019

### GeneID (NCBI):

57402

### UNIPROT ID:

Q9HCY8

### Full Name:

S100 calcium binding protein A14

### Calculated MW:

12 kDa

### Observed MW:

10-12 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, rat

### Cited Species:

human, 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 : MCF-7 cells, rat stomach tissue

IP : MCF-7 cells,

IHC : human colon cancer tissue, human skin tissue, human ovary tumor tissue, human breast cancer tissue, human bowen disease, human ovary cancer tissue

IF/ICC : HeLa cells,

## Background Information

The S100 family is a multifunctional group of EF-hand type calcium-binding proteins. S100A14 protein (previously known as BCMP84, S100A15) is a recently identified member of the S100 family. It is differentially expressed in a number of different human malignancies like ovary, breast, uterus, kidney, rectum and colon cancers, and esophageal and oral squamous cell carcinomas (OSCCs).

## Notable Publications

Author	Pubmed ID	Journal	Application
Qingying Zhang	25266115	J Cancer Res Clin Oncol	WB, IHC
Sapkota Dipak D	24086685	PLoS One	WB, IHC, IP
Leth-Larsen Rikke R	22692575	Mol Med	IHC

## 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

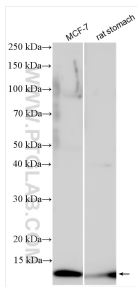
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

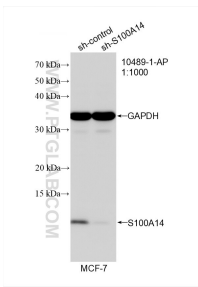
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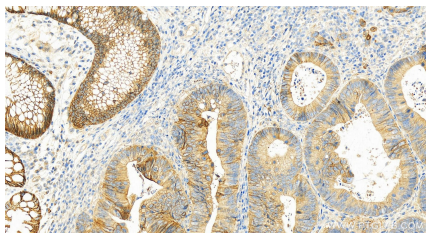
Selected Validation Data



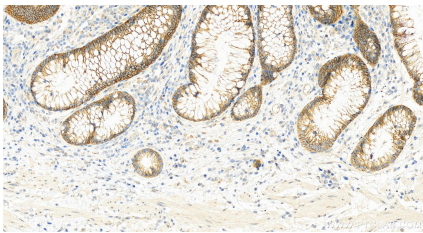
Various lysates were subjected to SDS PAGE followed by western blot with 10489-1-AP (S100A14 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



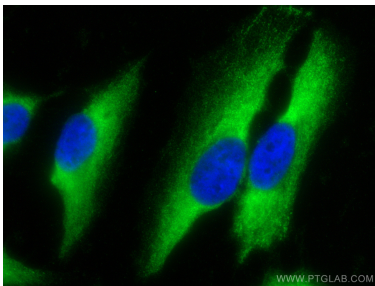
WB result of S100A14 antibody (10489-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-S100A14 transfected MCF-7 cells.



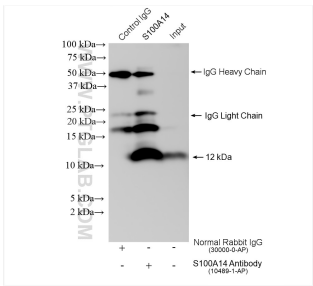
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10489-1-AP (S100A14 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10489-1-AP (S100A14 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using S100A14 antibody (10489-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-S100A14 (IP:10489-1-AP, 4ug; Detection:10489-1-AP 1:1000) with MCF-7 cells lysate 760 ug.