For Research Use Only

S100A11 Polyclonal antibody

Catalog Number:10237-1-AP Featured Product 47 Publications

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Basic Information

Catalog Number:
10237-1-AP

Size:
150ul , Concentration: 550 μg/ml by Nanodrop and 460 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0343

GenBank Accession Number:
BC001410

GeneID (NCBI):
6282

UNIPROT ID:
P31949

Full Name:
S100 calcium binding protein A11

Calculated MW:
105 aa, 12 kDa

Observed MW:
12 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:12000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:200-1:800

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
CoIP, IF, IHC, WB

Species Specificity:
human, rat, 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 : DU 145 cells, HCT 116 cells, BxPC-3 cells, human lung tissue, HEK-293 cells, human heart tissue, COLO 320 cells, HaCaT cells, U2OS cells, SKOV-3 cells

IP : DU 145 cells, PC-3 cells

IHC : human breast cancer tissue, human ovary tumor tissue, human colon cancer tissue, mouse liver tissue, human cervical cancer tissue, human lung cancer tissue, human thyroid cancer tissue, mouse kidney tissue, rat kidney tissue, human liver cancer tissue

IF : PC-3 cells, BxPC-3 cells

Background Information

S100A11 (also known as S100C or calziggarin), is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs (PMID: 18694925). S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. First discovered in 1989, S100A11 has since been proposed to have direct biological functions in an assortment of physiological processes such as endo- and exocytosis, regulation of enzyme activity, cell growth and regulation, apoptosis and inflammation (PMID: 15241500). Chromosomal rearrangements and altered expression of S100A11 have been implicated in tumor metastasis. This S100A11 antibody (10237-1-AP) has also been instrumental in investigations into S100A11's role in the development of brain tumors in tuberous sclerosis complex (TSC) patients (PMID: 20133820).

Notable Publications

Author	Pubmed ID	Journal	Application
Yu-Pu Liu	33132818	Front Neurosci	IF
Arseniy E Yuzhalin	31545917	Am J Physiol Gastrointest Liver Physiol	IF
Arsila P. K. Ashraf	36200035	Front Cell Dev Biol	IF

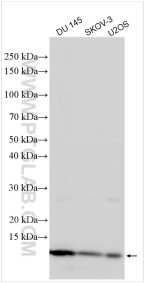
Storage

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

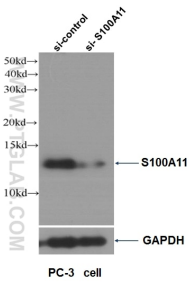
***** 20ul sizes contain 0.1% BSA**

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

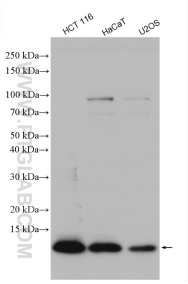
Selected Validation Data



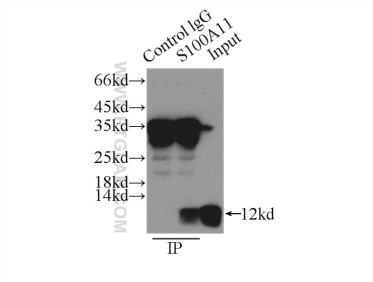
Various lysates were subjected to SDS PAGE followed by western blot with 10237-1-AP (S100A11 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



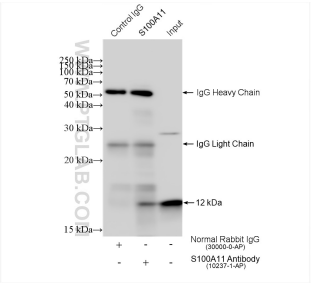
WB result of S100A11 antibody (10237-1-AP, 1:4000) with si-control and si-S100A11 transfected PC-3 cells.



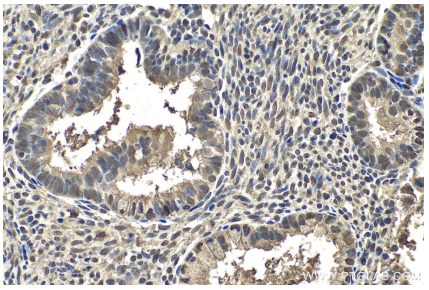
Various lysates were subjected to SDS PAGE followed by western blot with 10237-1-AP (S100A11 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



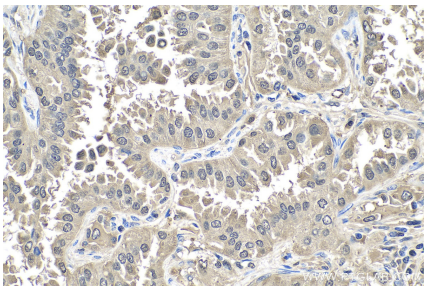
IP result of anti-S100A11 (IP:10237-1-AP, 3ug; Detection:10237-1-AP 1:1000) with PC-3 cells lysate 1000ug.



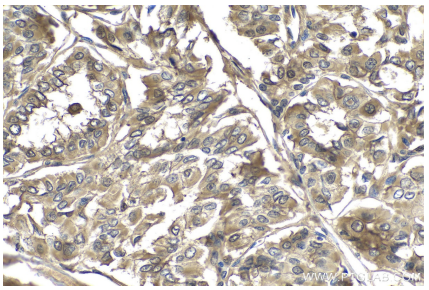
IP result of anti-S100A11 (IP:10237-1-AP, 4ug; Detection:10237-1-AP 1:5000) with DU 145 cells lysate 1280 ug.



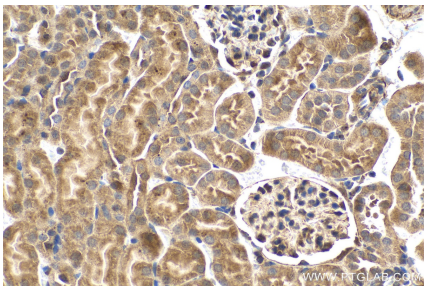
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10237-1-AP (S100A11 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



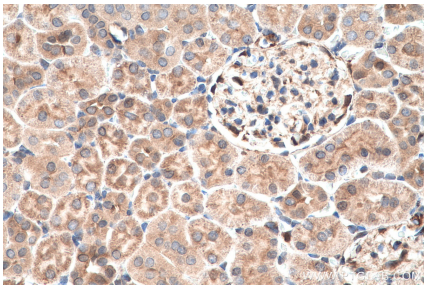
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10237-1-AP (S100A11 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

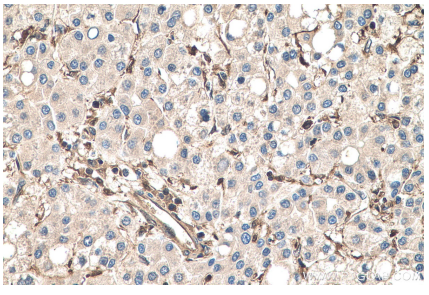


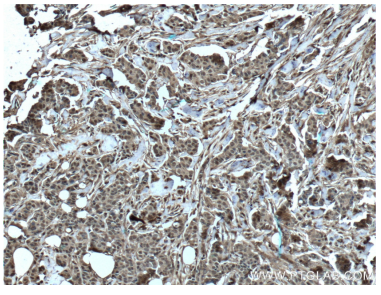
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 10237-1-AP (S100A11 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



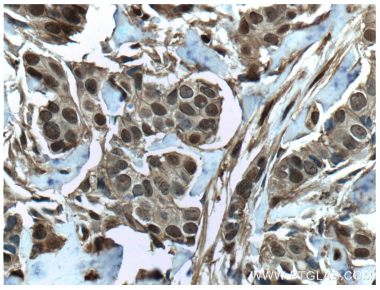
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10237-1-AP (S100A11 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



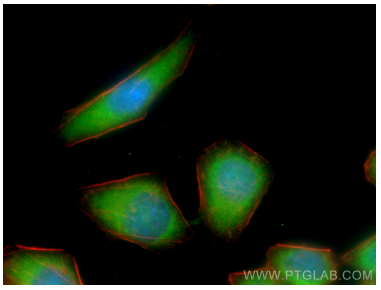




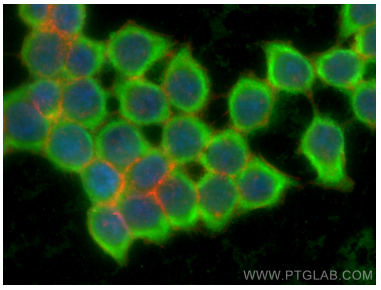
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 10237-1-AP (S100A11 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10237-1-AP (S100A11 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



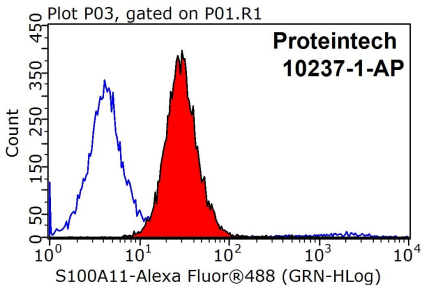
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10237-1-AP (S100A11 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10237-1-AP (S100A11 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (-20°C Ethanol) fixed PC-3 cells using S100A11 antibody (10237-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunofluorescent analysis of (-20°C Ethanol) fixed BxPC-3 cells using S100A11 antibody (10237-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1X10^6 MCF-7 cells were stained with 0.2ug S100A11 antibody (10237-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.