

For Research Use Only

SIPA1L3 Polyclonal antibody

Catalog Number: 30544-1-AP

1 Publications



Basic Information

Catalog Number:

30544-1-AP

Size:

150ul, Concentration: 900 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG30750

GenBank Accession Number:

BC150620

GeneID (NCBI):

23094

UNIPROT ID:

O60292

Full Name:

signal-induced proliferation-associated 1 like 3

Observed MW:

195 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB: mouse brain tissue, HeLa cells, rat brain tissue

IP: HeLa cells,

IHC: human ovary cancer tissue,

IF/ICC: HeLa cells, HEK-293 cells

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

STEAP3 (Signal-induced proliferation-associated 1-like protein 3) is also named as KIAA0545 and SPAL3. STEAP3 is a member of the STEAP family and is composed of a six-transmembrane domain at the COOH-terminal domain and a cytoplasmic N-terminal oxidoreductase domain, which is essential for iron and copper uptake (PMID:16227996). STEAP3 contains a functional p53-binding site in its promoter and can be upregulated following p53 activation to enhance cell death in myeloid leukemia cell line and breast cancer cells (PMID: 18617898). By interacting with Nix, a pro-apoptotic Bcl-2 family member, and Myt1 kinase, a negative regulator of the G2/M transition, STEAP3 overexpression promotes apoptosis and inhibits G2/M transition in cell cycle progression (PMID: 12606722, PMID: 10504341).

Notable Publications

Author	Pubmed ID	Journal	Application
Stephan Tetenborg	39651118	bioRxiv	WB,IP,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

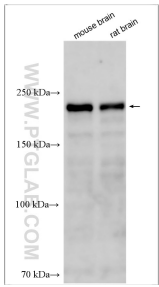
For technical support and original validation data for this product please contact:

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

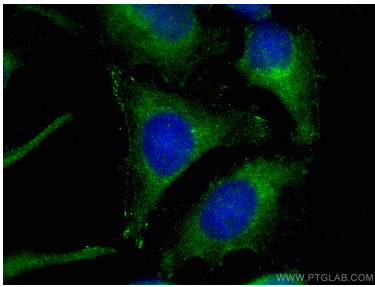
E: proteintech@ptglab.com
W: ptglab.com

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

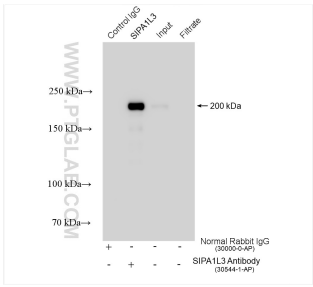
Selected Validation Data



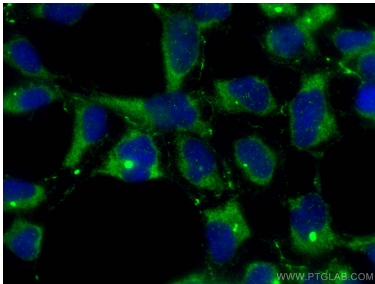
Various lysates were subjected to SDS PAGE followed by western blot with 30544-1-AP (SIPA1L3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



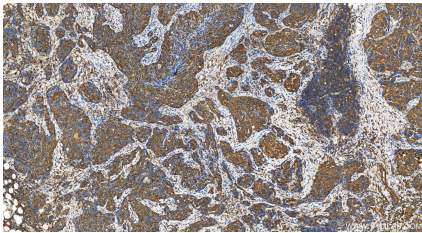
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using SIPA1L3 antibody (30544-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-SIPA1L3 (IP:30544-1-AP, 4ug; Detection:30544-1-AP 1:3000) with HeLa cells lysate 1320 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using SIPA1L3 antibody (30544-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 30544-1-AP (SIPA1L3 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).