

For Research Use Only

SARA Polyclonal antibody

Catalog Number: 22033-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

22033-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16929

GenBank Accession Number:

BC032680

GeneID (NCBI):

9372

UNIPROT ID:

O95405

Full Name:

zinc finger, FYVE domain containing 9

Calculated MW:

1425 aa, 156 kDa

Observed MW:

156 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 1:20-1:200

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, 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: HEK-293 cells, mouse brain tissue, MCF-7 cells, human brain tissue, HeLa cells

IP: mouse brain tissue,

IHC: human kidney tissue,

IF-P: mouse brain tissue, mouse kidney tissue

Background Information

ZFYVE9, also known as SARA (Smad anchor for receptor activation), is a double zinc finger (FYVE domain) protein that interacts directly with SMAD2 and SMAD3, and is involved in Alzheimer's disease. SARA functions to recruit SMAD2/SMAD3 to intracellular membranes and to the TGF-beta receptor. SARA plays a significant role in TGF-mediated signaling by regulating the subcellular location of SMAD2 and SMAD3 and modulating the transcriptional activity of the SMAD3/SMAD4 complex. SARA is possibly associated with TGF-beta receptor internalization.

Notable Publications

Author	Pubmed ID	Journal	Application
Changgui Shi	36321807	J Bone Miner Res	WB,IF
Deepankar Gahlot	28602823	Structure	WB
Zheng-Zhou Lu	37224259	Sci Adv	WB,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

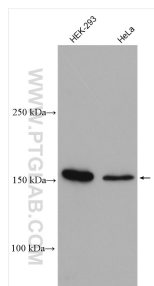
For technical support and original validation data for this product please contact:

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

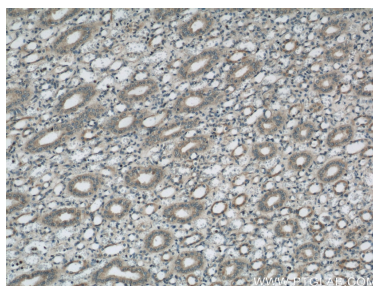
E: proteintech@ptglab.com
W: ptglab.com

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

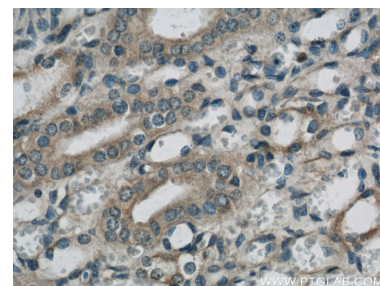
Selected Validation Data



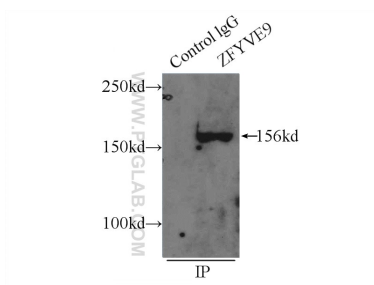
Various lysates were subjected to SDS PAGE followed by western blot with 22033-1-AP (SARA antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



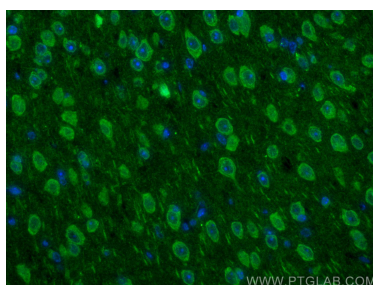
Immunohistochemical analysis of paraffin-embedded human kidney using 22033-1-AP (SARA antibody) at dilution of 1:50 (under 10x lens).



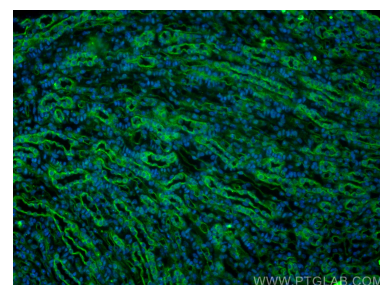
Immunohistochemical analysis of paraffin-embedded human kidney using 22033-1-AP (SARA antibody) at dilution of 1:50 (under 40x lens).



IP result of anti-SARA (IP:22033-1-AP, 5ug; Detection:22033-1-AP 1:1000) with mouse brain tissue lysate 5000ug.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using SARA antibody (22033-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using SARA antibody (22033-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).