

For Research Use Only

SIPA1 Polyclonal antibody

Catalog Number: 26793-1-AP

1 Publications



Basic Information

Catalog Number:

26793-1-AP

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25383

GenBank Accession Number:

BC010492

GeneID (NCBI):

6494

UNIPROT ID:

Q96FS4

Full Name:

signal-induced proliferation-associated 1

Calculated MW:

1042 aa, 112 kDa

Observed MW:

130 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB: Raji cells, HEK-293T cells

IHC: human ovary cancer tissue,

IF/ICC: MCF-7 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

SIPA1 (Signal-induced proliferation-associated protein 1) is also named as SPA1, p130 SPA-1 and GTPase-activating protein Spa-1. SIPA1, a GTPase activating protein, was discovered in proliferating lymphocytes as mitogen-induced nuclear protein. SIPA1 promotes catalyzation of hydrolyze Rap1GTP/GDP and is known to be a negative regulator of Ras-related protein, which transduces the signals for various cellular functions, including development, cellular proliferation, and cellular adhesion (PMID:28237246). Transcription of fibronectin 1, which is crucial for cell junction and migration of triple-negative breast cancer (TNBC) cells, was regulated by SIPA1 in a DBR-dependent manner. SIPA1 was highly expressed in metastatic TNBC. SIPA1 served as a TF, promoting TNBC migration, invasion, and metastasis (PMID: 37500797).

Notable Publications

Author	Pubmed ID	Journal	Application
Xinlu Liu	35303583	Transl Oncol	WB,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:

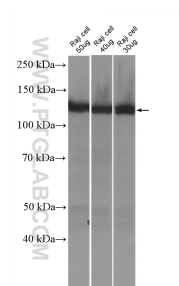
T: 4006900926

E: Proteintech-CN@ptglab.com

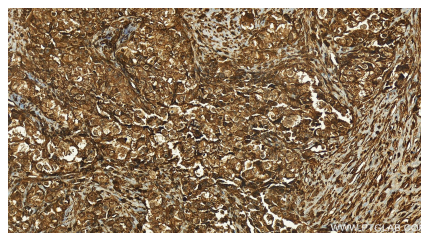
W: ptgcn.com

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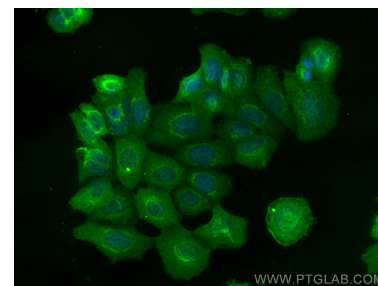
Selected Validation Data



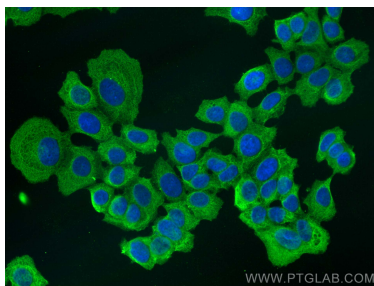
Raji cells were subjected to SDS PAGE followed by western blot with 26793-1-AP (SIPA1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 26793-1-AP (SIPA1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SIPA1 antibody (26793-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using SIPA1 antibody (26793-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).