

For Research Use Only

VAV3 Polyclonal antibody

Catalog Number: 30291-1-AP

2 Publications



Basic Information

Catalog Number:

30291-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG33022

GenBank Accession Number:

NM_006113

GeneID (NCBI):

10451

UNIPROT ID:

Q9UKW4

Full Name:

vav 3 guanine nucleotide exchange factor

Calculated MW:

98kd

Observed MW:

98 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:16000

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

FC (Intra): 0.40 ug per 10⁶ cells in a 100 ul suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human

Cited Species:

human

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: Jurkat cells, THP-1 cells

IP: Jurkat cells,

IHC: human colon cancer tissue,

IF/ICC: Jurkat cells, HeLa cells

FC (Intra): Jurkat cells,

Background Information

Vav3, a member of Dbl family which is also the activator of GTP kinase of Rho family, can activate the expression of RhoA, Rac1 and Cdc42 (PMID:28285969). Vav3 is associated with tumor growth, apoptosis, invasion, metastasis and angiogenesis (PMID:28285969). Vav3 is a multiple function protein with both signaling molecule and coactivator activities. Vav3 oncogene is overexpressed in androgen-independent prostate cancer cells relative to their androgen-dependent counterparts and contribute to development of hormone refractory prostate cancer (PMID:21455584).

Notable Publications

Author	Pubmed ID	Journal	Application
Jiawei Gui	39722126	CNS Neurosci Ther	IF
Rui Ye	38956415	Nat Commun	WB

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

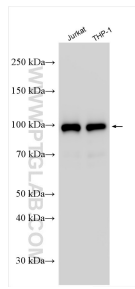
For technical support and original validation data for this product please contact:

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

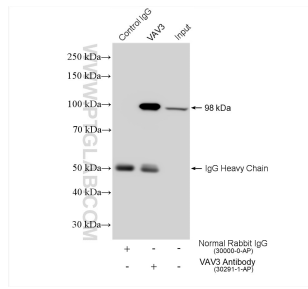
E: proteintech@ptglab.com
W: ptglab.com

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

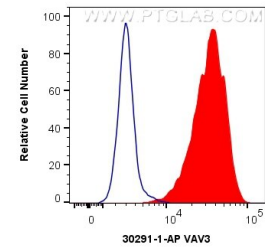
Selected Validation Data



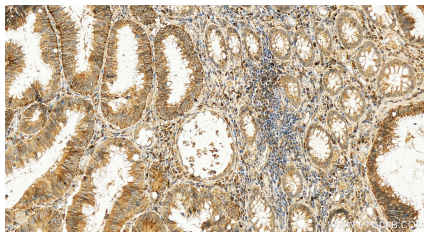
Various lysates were subjected to SDS PAGE followed by western blot with 30291-1-AP (VAV3 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



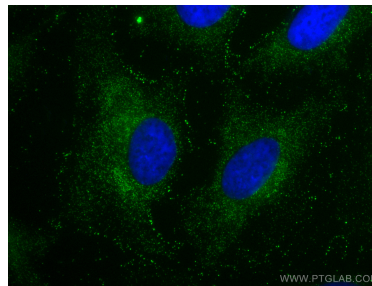
IP result of anti-VAV3 (IP:30291-1-AP, 4ug; Detection:30291-1-AP 1:8000) with Jurkat cells lysate 1560 ug.



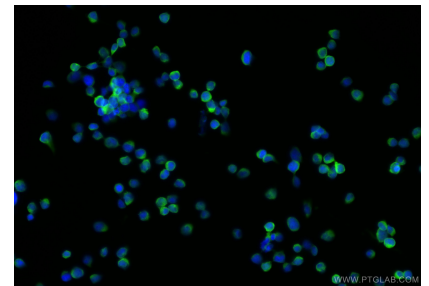
1X10⁶ Jurkat cells were intracellularly stained with 0.4 ug Anti-Human VAV3 (30291-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 30291-1-AP (VAV3 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using VAV3 antibody (30291-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using VAV3 antibody (30291-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).