

For Research Use Only

# VAV1 Polyclonal antibody

Catalog Number:16364-1-AP

Featured Product

7 Publications



## Basic Information

**Catalog Number:**

16364-1-AP

**Size:**

150ul , Concentration: 500 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG9049

**GenBank Accession Number:**

BC013361

**GeneID (NCBI):**

7409

**UNIPROT ID:**

P15498

**Full Name:**

vav 1 guanine nucleotide exchange factor

**Calculated MW:**

845 aa, 98 kDa

**Observed MW:**

98 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:8000

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

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IP, ELISA

**Cited Applications:**

WB, IHC, IF

**Species Specificity:**

human

**Cited Species:**

human, rat, gecko

**Positive Controls:**

**WB :** Ramos cells, HL-60 cells, Jurkat cells, K-562 cells

**IP :** K-562 cells,

**IHC :** human breast cancer tissue, human brain tissue, human kidney tissue, human liver tissue, human heart tissue, human spleen tissue, human lung tissue, human lymphoma tissue

**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

Vav proteins mainly act as enzymes that catalyze the activation step of Rho subfamily GTPases during cell signaling. There are three family members: VAV1, VAV2 and VAV3. Vav1 is specifically expressed in the hematopoietic system, whereas Vav2 and Vav3 are more ubiquitously expressed (PMID:14607270). Vav1 is physiologically active as a GDP/GTP nucleotide exchange factor (GEF) in the hematopoietic system (PMID:31654719).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhangya Pu	36224658	Cancer Cell Int	WB
Chang-Yien Chan	27707912	Clin Sci (Lond)	WB,IF
Xiaolei Zhu	28336434	Biochem Biophys Res Commun	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

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

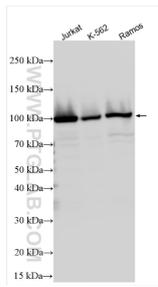
For technical support and original validation data for this product please contact:

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

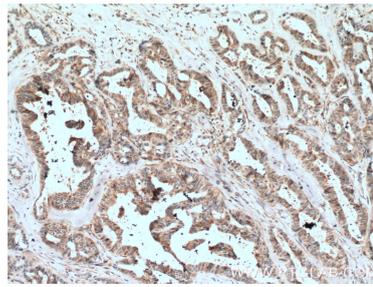
E: proteintech@ptglab.com  
W: ptglab.com

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

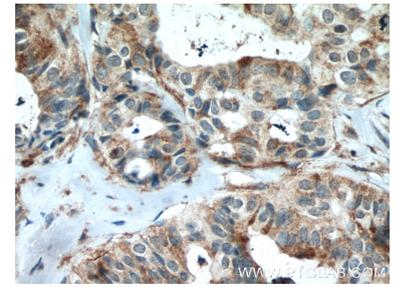
## Selected Validation Data



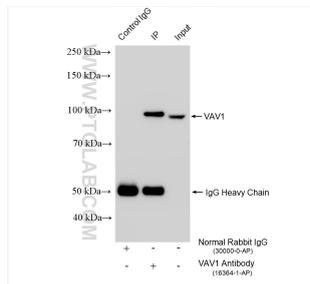
Various lysates were subjected to SDS PAGE followed by western blot with 16364-1-AP (VAV1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16364-1-AP (VAV1 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 16364-1-AP (VAV1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-VAV1 (IP:16364-1-AP, 4 $\mu$ g; Detection:16364-1-AP 1:4000) with K-562 cells lysate 1800  $\mu$ g.