

For Research Use Only

VAV1 Polyclonal antibody

Catalog Number: 16364-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number:

16364-1-AP

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: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse, rat, gecko

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, HL-60 cells, Ramos cells, K-562 cells, Raji cells

IP : K-562 cells,

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

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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

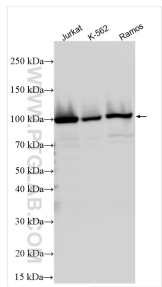
T: 4006900926

E: Proteintech-CN@ptglab.com

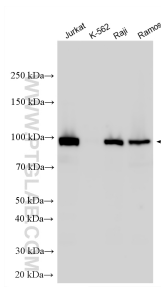
W: ptgcn.com

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

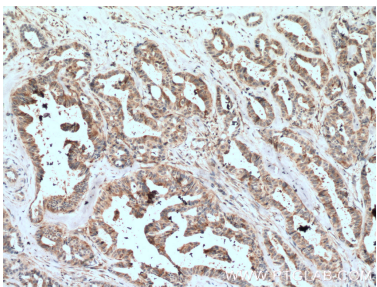
Selected Validation Data



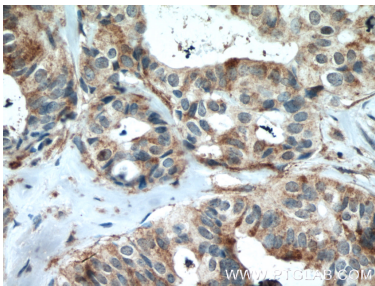
Various lysates were subjected to SDS PAGE followed by western blot with 16364-1-AP (VAV1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



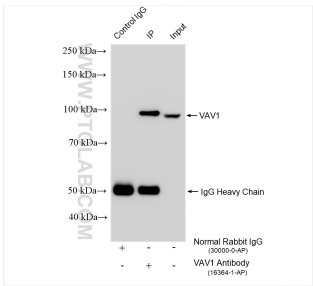
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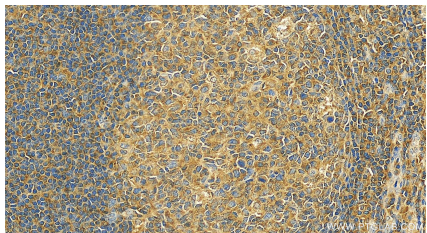
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16364-1-AP (VAV1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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, 4ug; Detection:16364-1-AP 1:4000) with K-562 cells lysate 1800 ug.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 16364-1-AP (VAV1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).