

For Research Use Only

HVCN1 Polyclonal antibody

Catalog Number: 14162-1-AP

1 Publications



Basic Information

Catalog Number:

14162-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5350

GenBank Accession Number:

BC032672

GeneID (NCBI):

84329

UNIPROT ID:

Q96D96

Full Name:

hydrogen voltage-gated channel 1

Calculated MW:

273 aa, 32 kDa

Observed MW:

28-32 kDa, ~60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:50-1:500

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

IHC

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : Raji cells, PC-3 cells

IP : PC-3 cells,

IHC : human tonsillitis tissue,

IF/ICC : PC-3 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

HVCN1, also named as VSOP and HV1, Belongs to the hydrogen channel family. HVCN1 mediates the voltage-dependent proton permeability of excitable membranes. It forms a proton-selective channel through which protons may pass in accordance with their electrochemical gradient. Proton efflux, HVCN1 is accompanied by membrane depolarization, facilitates acute production of reactive oxygen species in phagocytosis. HVCN1, the voltage-sensitive proton channel, is present in human sperm and is an important regulator of the functional maturation of sperm. HVCN1 has four isoforms with MW 28-32 kDa or 40 kDa (modification). It has a dimer form with MW ~60 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Bing Yu	33936061	Front Immunol	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

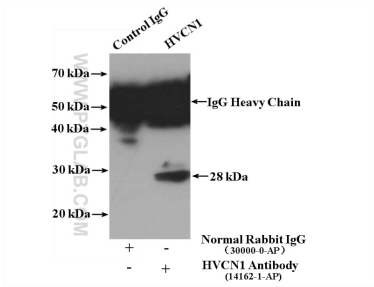
For technical support and original validation data for this product please contact:

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

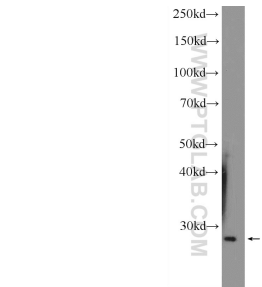
E: proteintech@ptglab.com
W: ptglab.com

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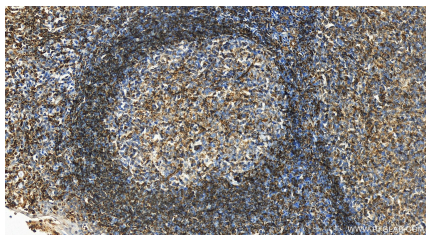
Selected Validation Data



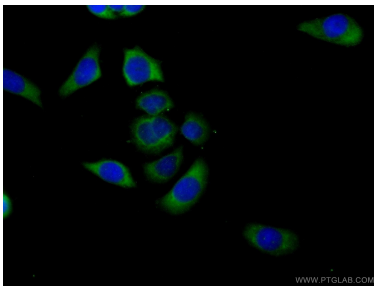
IP result of anti-HVCN1 (IP:14162-1-AP, 4ug; Detection:14162-1-AP 1:300) with PC-3 cells lysate 4000 ug.



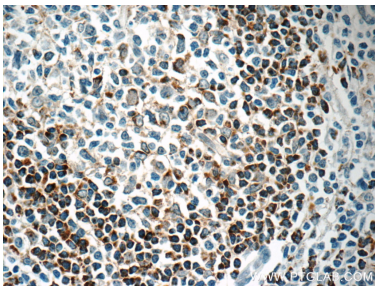
Raji cells were subjected to SDS PAGE followed by western blot with 14162-1-AP (HVCN1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 14162-1-AP (HVCN1 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 Ethanol) fixed PC-3 cells using 14162-1-AP (HVCN1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 14162-1-AP (HVCN1 Antibody) at dilution of 1:200 (under 40x lens).