

For Research Use Only

# HVCN1 Monoclonal antibody

Catalog Number: 66449-1-Ig



## Basic Information

<b>Catalog Number:</b> 66449-1-Ig	<b>GenBank Accession Number:</b> BC032672	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1800 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 84329	<b>CloneNo.:</b> 1E4C4
<b>Source:</b> Mouse	<b>Full Name:</b> hydrogen voltage-gated channel 1	<b>Recommended Dilutions:</b> WB 1:2000-1:16000 IHC 1:50-1:500 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 273 aa, 32 kDa	
<b>Immunogen Catalog Number:</b> AG5350	<b>Observed MW:</b> 28-35 kDa, 40 kDa, 60 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : Raji cells, HeLa cells
<b>Species Specificity:</b> human	<b>IHC :</b> human tonsillitis tissue, <b>IF :</b> human tonsillitis tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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.

## Storage

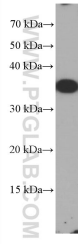
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

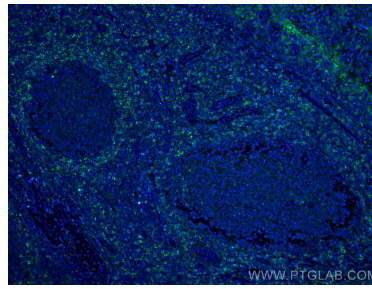
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

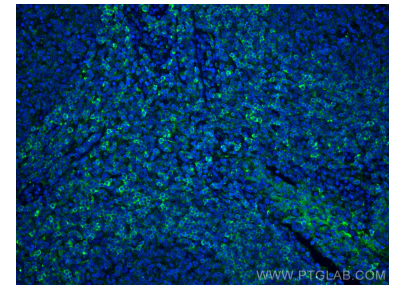
## Selected Validation Data



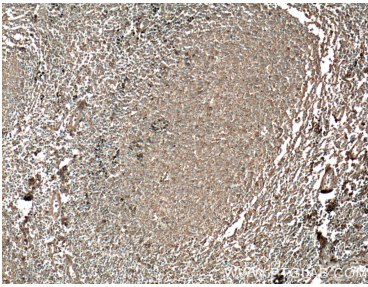
Raji cells were subjected to SDS PAGE followed by western blot with 66449-1-Ig (HVCN1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



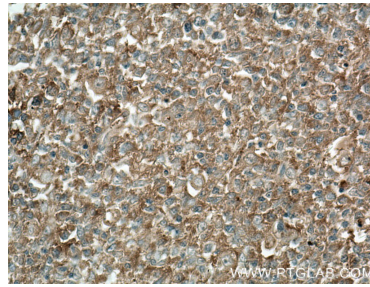
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using HVCN1 antibody (66449-1-Ig, Clone: 1E4C4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66449-1-Ig (HVCN1 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 tonsillitis tissue slide using 66449-1-Ig (HVCN1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).