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HVCN1 Polyclonal Antibody

Catalog number: 14162-1-AP

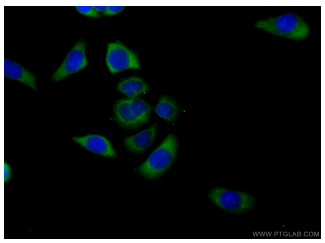
Size: 45 µg/150 µl

Source: Rabbit

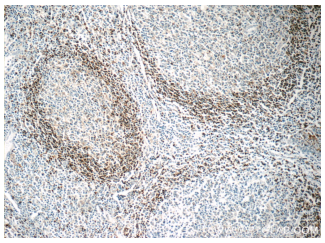
Isotype: IgG

Synonyms:

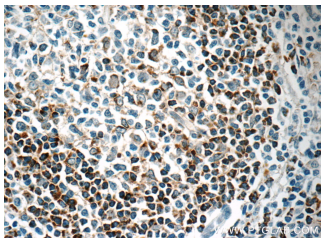
HVCN1; HV1, HVCN1, VSOP



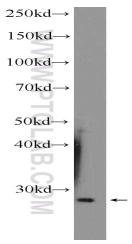
Immunofluorescent analysis of (-20▌ Ethanol) fixed PC-3 cells using 14162-1-AP(HVCN1 Antibody) at dilution of 1:50 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Immunohistochemistry of paraffin-embedded human tonsillitis tissue slide using 14162-1-AP(HVCN1 Antibody) at dilution of 1:200 (under 10x lens)



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



Raji cells were subjected to SDS PAGE followed by

Background

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.

Applications

Tested applications:	**ELISA, WB, IHC, IF**
Species specificity:	**Human; other species not tested.**
Caculated HVCN1 MW:	**273aa,32 kDa**
Observed HVCN1 MW:	**28-32 kDa; ~60 kDa**
Positive WB detected in	**Raji cells, PC-3 cells**
Positive IHC detected in	**Human tonsillitis tissue**
Positive IF detected in	**PC-3 cells**
Recommended dilution:	**WB: 1:200-1:2000**
	IHC: 1:20-1:200
	IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	**Ag5350**
GenBank accession number:	**BC032672**
Gene ID (NCBI):	**84329**
Full name:	**Hydrogen voltage-gated channel 1**

Product information

Purification method:	**Antigen affinity purification**
Storage:	**PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.**

western blot with 14162-1-AP(HVCN1 Antibody) at dilution of 1:600