

Rabbit HVCN1 Polyclonal Antibody | anti-HVCN1 antibody

HVCN1 Antibody

CATALOG # AAA39951	HOST Rabbit	REACTIVITY Human, mouse, rat	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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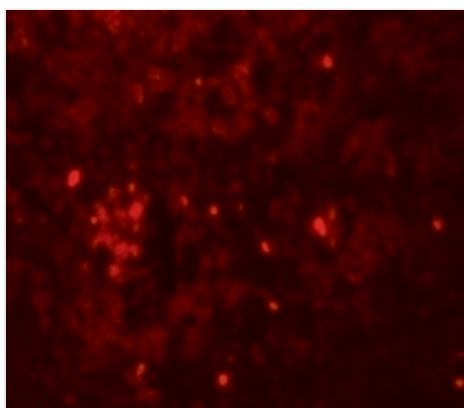
PRODUCT SYNONYMS

HVCN1; Polyclonal Antibody; HVCN1 Antibody; Hydrogen voltage-gated channel 1; HV1; VSOP; Voltage sensor domain-only protein; (CT) Hydrogen voltage-gated channel 1; anti-HVCN1 antibody

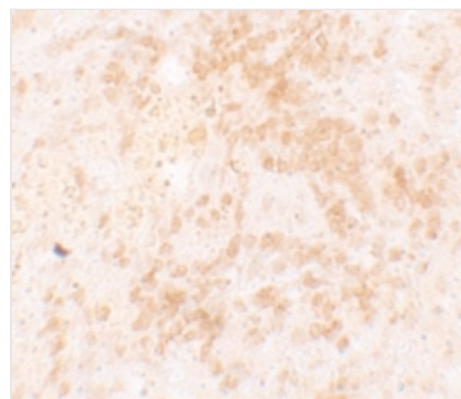
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse, rat
Clonality	Polyclonal
Purity/Purification	Affinity chromatography purified via peptide column
Form/Format	Liquid. PBS containing 0.02% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	273
Applicable Applications for anti-HVCN1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	17 amino acid peptide near the carboxy terminus of human HVCN1.
Blocking Peptide	HVCN1 Peptide
Positive Control 1	Spleen Lysate
Preparation and Storage	Store at 4 degree C for three months and -20 degree C. Stable for up to one year.

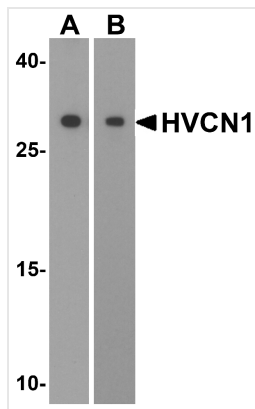
IMAGES


IF (Immunofluorescence)

Immunofluorescence of HVCN1 in Rat Spleen cells with HVCN1 antibody at 20 &#956;g/mL.


IHC (Immunohistochemistry)

Immunohistochemistry of HVCN1 in rat spleen tissue with HVCN1 antibody at 5 &#956;g/mL.



WB (Western Blot)

Western blot analysis of HVCN1 in (A) human spleen and (B) mouse spleen tissue lysates with HVCN1 antibody at 1 μg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-HVCN1 antibody	HVCN1 (hydrogen voltage-gated channel 1), a voltage gated proton channel protein that is highly expressed in immune tissues, mediates the proton conductances required by phagocytic leukocytes for the oxidative burst that underlies microbial killing. HVCN1 moderates the voltage-dependent proton permeability of excitable membranes by allowing the flow of protons in accordance to their electrochemical gradient. HVCN1 is sensitive to zinc ions, and can be inhibited by them. HVCN1 may represent a new therapeutic target for B cell malignancies on continued signaling via the B cell antigen receptor.
References	* Ramsey IS, Moran MM, Chong JA, et al. A voltage gated proton-selective channel lacking the pore domain. <i>Nature</i>2006; 440:1213-6. * Sasaki M, Takagi M, and Okamura Y. A voltage sensor-domain protein is a voltage-gated proton channel. <i>Science</i>2006; 312: 589-92. * Morgan D, Capasso M, and Musset B. Voltage-gated proton channels maintain pH in human neutrophils during phagocytosis. <i>Proc. Natl. Acad. Sci. USA</i>2009; 106:18022-7. * Capasso M, Bhamrah MK, Henley T, et al. HVCN1 modulates BCR signal strength via regulation of BCR-dependent generation of reactive oxygen species. <i>Nat. Immunol.</i>2010;11:265-72.

NCBI AND UNIPROT INFORMATION

NCBI GI #	91992155
NCBI GeneID	84329
NCBI Accession #	NP_115745
NCBI GenBank Nucleotide #	NM_032369.3
UniProt Accession #	Q96D96 ; Q6UW11 ; Q96IS5 ; A8MQ37
Molecular Weight	31,683 Da
NCBI Official Full Name	voltage-gated hydrogen channel 1 isoform 1
NCBI Official Synonym Full Names	hydrogen voltage-gated channel 1
NCBI Official Symbol	HVCN1
NCBI Official Synonym Symbols	HV1; VSOP
NCBI Protein Information	voltage-gated hydrogen channel 1; voltage sensor domain-only protein
UniProt Protein Name	Voltage-gated hydrogen channel 1
UniProt Gene Name	HVCN1
UniProt Synonym Gene Names	VSOP; HV1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hvcn1-antibody-immunohistochemistry-western-blot-elisa/39951>