

Datasheet for 600-401-BS4**HVCN1 Antibody****Overview**

Description:	Anti-HVCN1 (RABBIT) Antibody - 600-401-BS4
Item No.:	600-401-BS4
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	HVCN1 Antibody, HV1, VSOP, UNQ578/PRO1140, Voltage-gated hydrogen channel 1, Hydrogen voltage-gated channel 1, HV1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HVCN1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-HVCN1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the C-terminus of human HVCN1.

Purity/Specificity: Anti-HVCN1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with HVCN1 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q96D96](#)
- [GeneID - 84329](#)
- [NCBI - NP_115745](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-HVCN1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 32 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:5000-1:10000

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 0.5-1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/ml by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

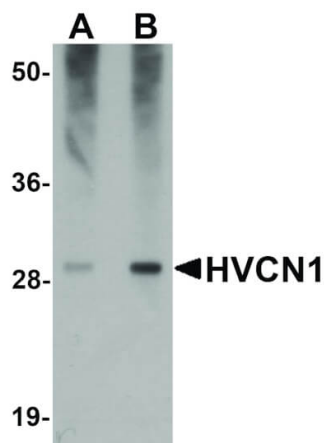
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration:

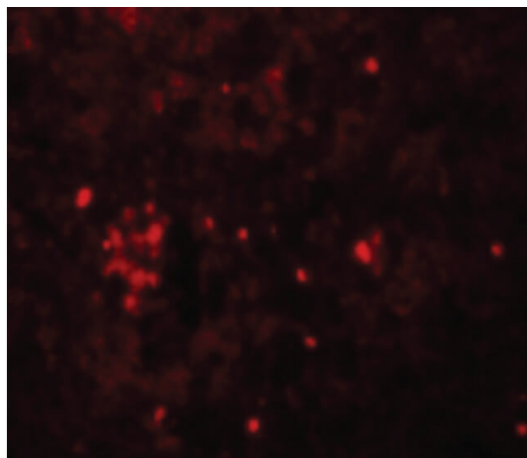
Expiration date is one (1) year from date of receipt.

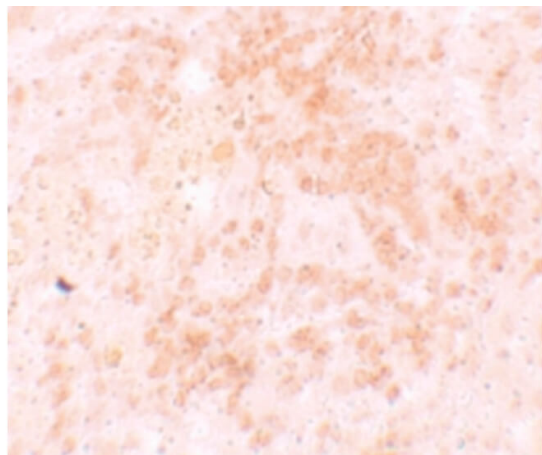
Images**Western Blot**

Western Blot of HVCN1 antibody. Lane 1: Human spleen tissue lysate with HVCN1 antibody at 0.5 $\mu\text{g/mL}$. Lane 2: Human spleen tissue lysate with HVCN1 antibody at 1 $\mu\text{g/mL}$. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 32 kDa, 32 kDa for HVCN1. Other band(s): HVCN1 splice variants and isoforms.

Immunofluorescence Microscopy

Immunofluorescence Microscopy of HVCN1 antibody. Tissue: rat spleen cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: HVCN1 antibody at 20 $\mu\text{g/mL}$ for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: HVCN1 is a membrane protein. Staining: HVCN1 as red fluorescent signal.



**Immunohistochemistry**

Immunohistochemistry of HVCN1 antibody. Tissue: rat spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: HVCN1 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: HVCN1 is a membrane protein. Staining: HVCN1 as precipitated pink signal with brown nuclear counterstain.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.