

**DATASHEET**

**HVCN1 Rabbit Polyclonal Antibody**

CAT. NO. APA15871

**KEY FEATURES**

Target	HVCN1	Source / Host	Rabbit
Reactivity	Human, Mouse	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

**BACKGROUND**

Voltage-gated proton-selective channel that conducts outward proton currents in response to intracellular acidification. Lacks a canonical ion-channel pore domain and mediates proton permeability via its voltage sensor domain . Appears to play a dominant role in regulation of CO<sub>2</sub>/HCO<sub>3</sub><sup>(-)</sup>/H<sup>(+)</sup> equilibrium in sperm flagellum. Prevents the acidification resulting from HCO<sub>3</sub><sup>(-)</sup> synthesis and thus sustains high HCO<sub>3</sub><sup>(-)</sup> levels inside sperm for capacitation . Provides for proton efflux that compensates for electron charge generated by NADPH oxidase activity either in the extracellular or phagosomal compartments, thus enabling the production of high levels of bactericidal reactive oxygen species during the respiratory burst .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
----	----------------

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

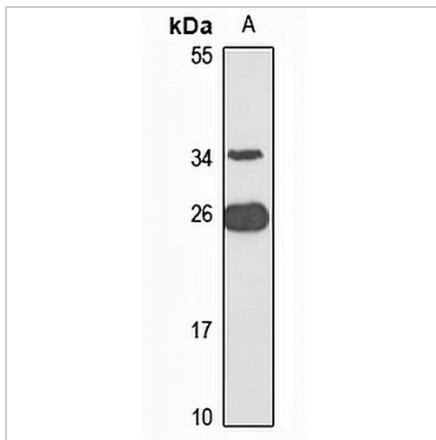
Description	Rabbit polyclonal antibody to HVCN1
Specificity	Recognizes endogenous levels of HVCN1 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human HVCN1. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 31 kD; Observed: 25 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	VSOP; Voltage-gated hydrogen channel 1; Hydrogen voltage-gated channel 1; HV1; Voltage sensor domain-only protein
Gene Symbol	HVCN1
Entrez Gene	84329(Human); 74096(Mouse)
SwissProt	Q96D96(Human); Q3U2S8(Mouse)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET****HVCN1 Rabbit Polyclonal Antibody**

CAT. NO. APA15871

**DATA**

Western blot analysis of HVCN1 expression in Raji (A) whole cell lysates. (Predicted band size: 31 kD; Observed band size: 25 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.