

Datasheet for ABIN7043529

anti-KCNA5 antibody (1st Extracellular Loop)**3** Images[Go to Product page](#)

Overview

Quantity:	25 µL
Target:	KCNA5
Binding Specificity:	1st Extracellular Loop, AA 268-279
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNA5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)DERELLRHPPVP(K), corresponding to amino acid residues 268-279 of rat KV1.5
Isotype:	IgG
Characteristics:	Anti-KV1.5 (KCNA5) (extracellular) Antibody (ABIN7043529, ABIN7045046 and ABIN7045047)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunohistochemistry, immunocytochemistry, and indirect flow cytometry. This antibody recognizes an extracellular epitope and thus is ideally suited to detect KV1.5 in living cells. It has been designed to recognize KV1.5 from human, mouse, and rat samples.

Product Details

Purification: Affinity purified on immobilized antigen.

Target Details

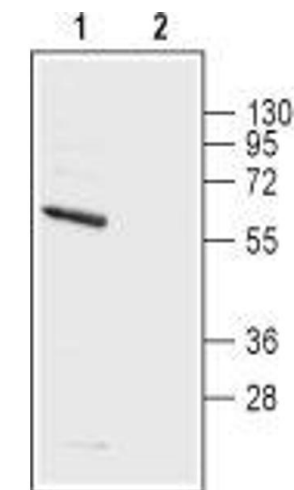
Target:	KCNA5
Alternative Name:	KV1.5 (KCNA5) (KCNA5 Products)
Background:	Alternative names: KV1.5 (KCNA5), Potassium voltage-gated channel subfamily A member 5
Gene ID:	25470
NCBI Accession:	NM_002234
UniProt:	P19024

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

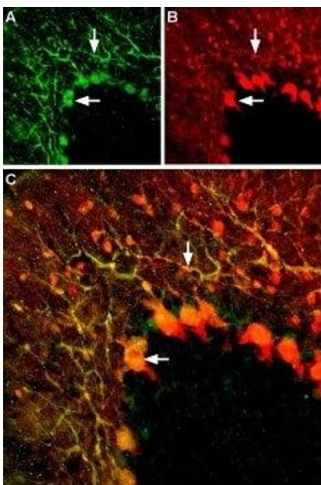
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p>



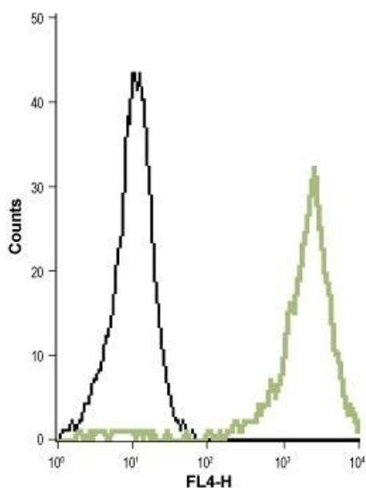
Western Blotting

Image 1. Western blot analysis of rat brain membranes: -
1. Anti-KV1.5 (KCNA5) (extracellular) Antibody (ABIN7043529, ABIN7045046 and ABIN7045047), (1:200). 2. Anti-KV1.5 (KCNA5) (extracellular) Antibody, preincubated with Kv1.5/KCNA5 (extracellular) Blocking Peptide (#BLP-PC150).



Immunohistochemistry

Image 2. Expression of KV1.5 channels in rat cerebellum -
Immunohistochemical staining of rat cerebellum with Anti-KV1.5 (KCNA5) (extracellular) Antibody (ABIN7043529, ABIN7045046 and ABIN7045047), (1:200). A. KV1.5 (green) appears in both the soma of Purkinje cells (horizontal arrows) and in Purkinje dendrites (vertical arrows). B. Neurons expressing gamma amino butyric acid (GABA) were labeled with mouse anti-parvalbumin antibody (red). C. Merge of the two images demonstrates partial colocalization (white arrows).



Flow Cytometry

Image 3. Cell surface detection of KV1.5 in live intact THP-1 (human acute monocytic leukemia cells) cell line: (black line) Cells + Goat-anti-rabbit-Cy5. (green line) Cells + Anti-KV1.5 (KCNA5) (extracellular) Antibody (ABIN7043529, ABIN7045046 and ABIN7045047), (1:20) + goat-anti-rabbit-Cy5.