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anti-KCNK1 antibody (Extracellular, P1 Loop)





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Overview	
Quantity:	50 μL
Target:	KCNK1
Binding Specificity:	AA 53-69, Extracellular, P1 Loop
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	Immunogen: Synthetic peptide
	Immunogen Sequence: RQELRKLKRRFLEEHEC, corresponding to amino acid residues 53-69 of

immunogen:	immunogen. Synthetic peptide
	Immunogen Sequence: RQELRKLKRRFLEEHEC, corresponding to amino acid residues 53-69 of
	human KCNK1
Isotype:	IgG
Characteristics:	Anti-KCNK1 (TWIK-1) (extracellular) Antibody is directed against an epitope of the human
	K2P1.1 channel. Anti-KCNK1 (TWIK-1) (extracellular) Antibody (ABIN7043443, ABIN7045008
	and ABIN7045009)) can be used in western blot and immunohistochemistry applications. The
	antibody recognizes an extracellular epitope and is thus ideal for detecting KCNK1 in living
	cells. It has been designed to recognize KCNK1 from mouse, rat and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

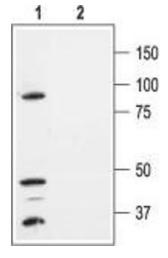
Target:	KCNK1
Alternative Name:	KCNK1 (TWIK-1) (KCNK1 Products)
Background:	Alternative names: KCNK1 (TWIK-1), Potassium channel subfamily K member 1, Inward rectifying K+ channel protein TWIK-1, K2P1.1, HOHO1, KCNO1
Gene ID:	3775
NCBI Accession:	NM_002245
UniProt:	000180

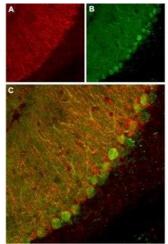
Application Details

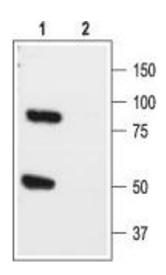
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	$50~\mu\text{L}$ 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:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. 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).







Western Blotting

Image 1. Western blot analysis of HEK-293-KCNK1 transfected cells: - 1. Anti-KCNK1 (TWIK-1) (extracellular) Antibody (ABIN7043443, ABIN7045008 and ABIN7045009), (1:300).2. Anti-KCNK1 (TWIK-1) (extracellular) Antibody, preincubated with KCNK1/TWIK-1 (extracellular) Blocking Peptide (#BLP-PC110).

Immunohistochemistry

Image 2. Expression of KCNK1 in mouse cerebellum - Immunohistochemical staining of mouse cerebellum using Anti-KCNK1 (TWIK-1) (extracellular) Antibody (ABIN7043443, ABIN7045008 and ABIN7045009). A. KCNK1 channel appears in glial processes (red). B. Staining of Purkinje nerve cells with mouse anti-calbindin D28K (a calcium binding protein, green). C. Confocal merge of KCNK1 channel and calbindin D28K demonstrates the separate localization of these proteins.

Western Blotting

Image 3. Western blot analysis of rat brain lysate: - 1. Anti-KCNK1 (TWIK-1) (extracellular) Antibody (ABIN7043443, ABIN7045008 and ABIN7045009), (1:200).2. Anti-KCNK1 (TWIK-1) (extracellular) Antibody, preincubated with KCNK1/TWIK-1 (extracellular) Blocking Peptide (#BLP-PC110).