Datasheet for ABIN7043504

anti-KCNQ2 antibody (C-Term, Intracellular)

2 Images

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Overview

Quantity:	50 µL
Target:	KCNQ2
Binding Specificity:	AA 578-593, C-Term, Intracellular
Reactivity:	Human, Rat, Mouse
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This KCNQ2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)RGPTITDKDRTKGPAE, corresponding to amino acid residues 578-593 of rat KCNQ2
Isotype:	IgG
Cross-Reactivity (Details):	The antibody is specific for KCNQ2. It does not cross-react with KCNQ3 or other QKT proteins. There are at least 9 recognized splice variants of rat KCNQ2. This antibody recognizes all except splice variants B and G.
Characteristics:	Guinea pig Anti-KCNQ2 Antibody (#), raised in guinea pigs, is a highly specific antibody directed against an epitope of the rat KV7.2 channel. The antibody can be used in western blot and immunohistochemistry applications. It has been designed to recognize KCNQ2 from mouse, rat, and human samples. The antigen used to immunize guinea pigs is the same as Anti-KCNQ2

Product Details

	Antibody (ABIN7043503, ABIN7044959 and ABIN7044960)) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation, etc.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	KCNQ2
Alternative Name:	KCNQ2 (KCNQ2 Products)
Background:	Alternative names: KV7.2, Voltage-gated potassium channel QKT subfamily member 2, KvLQT2
Gene ID:	170848
NCBI Accession:	NM_172109
UniProt:	O88943

Application Details

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

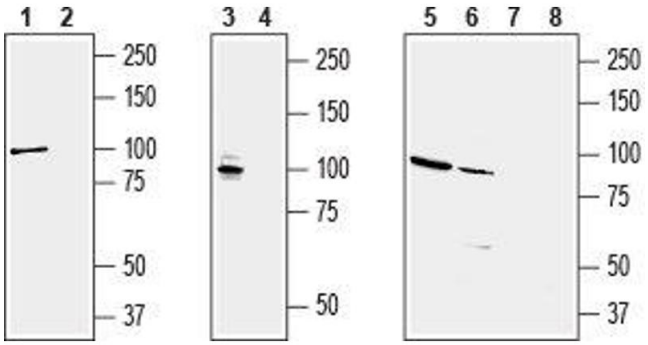
Handling

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:	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.

Handling

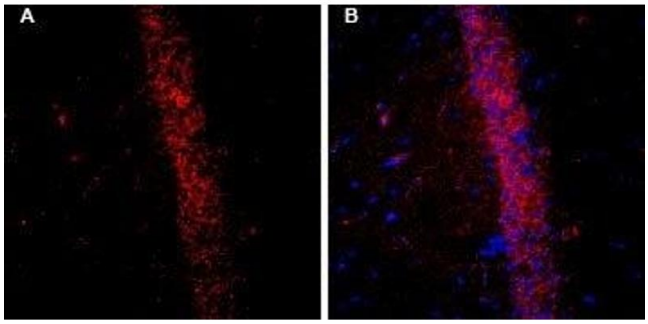
For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Western Blotting

Image 1. Western blot analysis of rat brain (lanes 1 and 2), mouse brain (lanes 3 and 4), human KCNQ2 transfected HEK-293 cells (lanes 5 and 7) and human brain neuroblastoma SH-SY5Y cell line (lanes 6 and 8) lysates: - 1,3,5,6. Guinea pig Anti-KCNQ2 Antibody (ABIN7043504, ABIN7045416 and ABIN7045417), (1:200).2,4,7,8. Guinea pig Anti-KCNQ2 Antibody, preincubated with KCNQ2 Blocking Peptide (#BLP-PC050).



Immunohistochemistry

Image 2. Expression of KCNQ2 in rat brain - Immunohistochemical staining of free-floating frozen rat hippocampal CA1 region sections using Guinea pig Anti-KCNQ2 Antibody (ABIN7043504, ABIN7045416 and ABIN7045417), (1:200). A. KCNQ2 staining (red) appears in the pyramidal layer (P). B. Nuclei are stained using DAPI as the counterstain (blue).