Datasheet for ABIN7043533

anti-KCND2 antibody (C-Term, Intracellular)

3 Images

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Overview

Quantity:	25 µL
Target:	KCND2
Binding Specificity:	AA 454-469, C-Term, Intracellular
Reactivity:	Human, Rat, Mouse
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This KCND2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)SNQLQSSEDEPAFVSK, corresponding to amino acid residues 454-469 of rat KV4.2
Isotype:	IgG
Characteristics:	Guinea pig Anti-Kv4.2 Antibody is directed against an epitope of rat KV4.2 channel. Guinea pig Anti-KV4.2 Antibody (#), raised in guinea pig, can be used in western blot and immunohistochemistry applications. It has been designed to recognize KV4.2 from mouse, rat and human samples. The antigen used to immunize guinea pigs is the same as Anti-KV4.2 Antibody (ABIN7043534, ABIN7044928 and ABIN7044929)) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation, etc.

Product Details

Purification:	Affinity purified on immobilized antigen.

Target Details

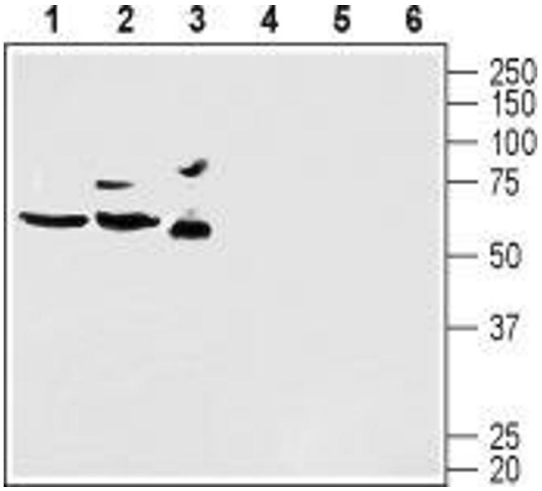
Target:	KCND2
Alternative Name:	KV4.2 (KCND2 Products)
Background:	Alternative names: KV4.2, Voltage-gated potassium channel subfamily D member 2, KCND2, Shal1, RK5
Gene ID:	65180
NCBI Accession:	NM_012281
UniProt:	Q63881

Application Details

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

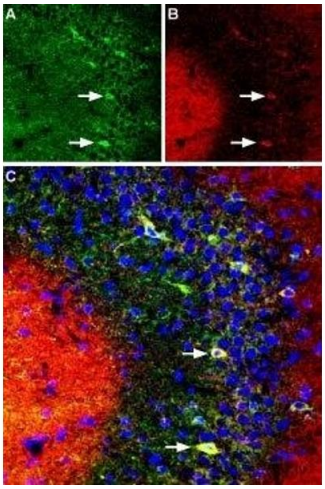
Handling

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. 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).



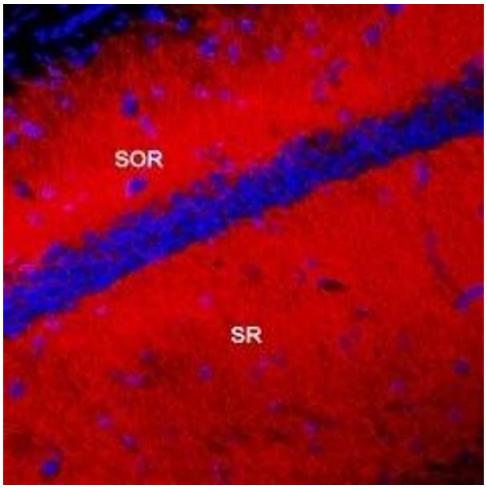
Western Blotting

Image 1. Western blot analysis of mouse brain lysate (lanes 1 and 4), rat brain lysate (lanes 2 and 5) and human U-87 MG glioblastoma cell lysate (lanes 3 and 6): - 1-3. Guinea pig Anti-KV4.2 Antibody (ABIN7043533, ABIN7045394 and ABIN7045395), (1:500).4-6. Guinea pig Anti-KV4.2 Antibody, preincubated with Kv4.2 Blocking Peptide (#BLP-PC023).



Immunohistochemistry

Image 2. Multiplex staining of DPP6 and KV4.2 in rat hippocampus - Immunohistochemical staining of immersion-fixed, free floating rat brain frozen sections using rabbit Anti-DPP6 (extracellular) Antibody (ABIN7043098, ABIN7045042 and ABIN7045043), (1:400) and Guinea pig Anti-KV4.2 Antibody (ABIN7043533, ABIN7045394 and ABIN7045395), (1:1000). A. DPP6 (green) is expressed in the CA3 rat hippocampal region. B. KV4.2 (red) is expressed in the same region. C. Merge of the two images demonstrates partial colocalization in neurons of the CA3 region (arrows). Cell nuclei are stained with DAPI (blue).



Immunohistochemistry

Image 3. Expression of KV4.2 in mouse CA1 hippocampal region - Immunohistochemical staining of perfusion-fixed frozen mouse brain sections using Guinea pig Anti-KV4.2 Antibody (ABIN7043533, ABIN7045394 and ABIN7045395), (1:400), followed by biotinylated donkey anti-guinea pig antibody and Streptavidin-Cy3. KV4.2 staining (red) appears in stratum oriens (SOR) and stratum radiatum (SR). Nuclei are labeled with DAPI (blue).