



[Go to Product page](#)

Datasheet for ABIN7043507

## anti-KCNQ5 antibody (C-Term, Intracellular)

### 2 Images

#### Overview

Quantity:	50 µL
Target:	KCNQ5
Binding Specificity:	AA 856-869, C-Term, Intracellular
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNQ5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

#### Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)RGSQDFYPKWRESK, corresponding to amino acid residues 856-869 of mouse KCNQ5
Isotype:	IgG
Characteristics:	Anti-KCNQ5 Antibody (ABIN7043507, ABIN7045050 and ABIN7045051)) is a highly specific antibody directed against an epitope of the mouse KV7.5 channel. The antibody can be used in western blot, immunohistochemistry, and immunocytochemistry applications. It has been designed to recognize KCNQ5 from rat, mouse, and human samples.
Purification:	Affinity purified on immobilized antigen.

## Target Details

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Target:	KCNQ5
Alternative Name:	KCNQ5 ( <a href="#">KCNQ5 Products</a> )
Background:	Alternative names: KCNQ5, KV7.5, Potassium voltage-gated channel subfamily KQT member 5, KQT-like 5, KVLQT5
Gene ID:	226922
NCBI Accession:	<a href="#">NM_019842</a>
UniProt:	<a href="#">Q9JK45</a>

## Application Details

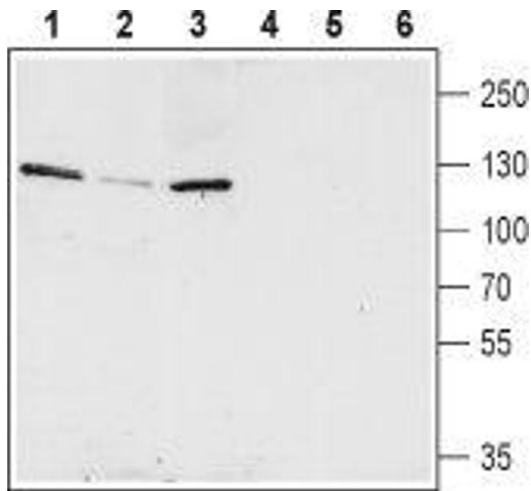
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Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

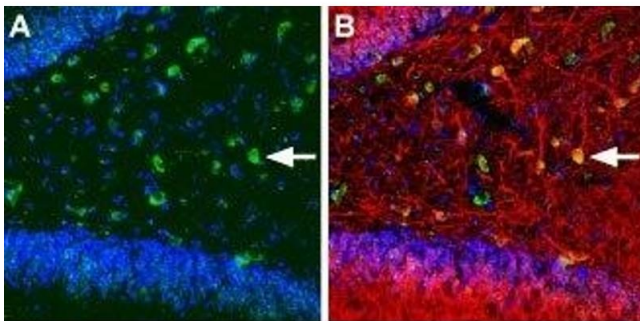
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Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium 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 rat hippocampus (lanes 1 and 4), mouse brain (lanes 2 and 5) and rat brain (lanes 3 and 6) lysates: - 1-3. Anti-KCNQ5 Antibody (ABIN7043507, ABIN7045050 and ABIN7045051), (1:200).4-5. Anti-KCNQ5 Antibody, preincubated with KCNQ5 Blocking Peptide (#BLP-PC155).



### Immunohistochemistry

**Image 2.** Expression of KCNQ5 in rat hippocampus - Immunohistochemical staining of immersion-fixed, free floating rat brain frozen sections using Anti-KCNQ5 Antibody (ABIN7043507, ABIN7045050 and ABIN7045051), (1:100). A. KCNQ5 (green) is expressed in hilar cells of the hippocampal dentate gyrus. B. Double-staining of KCNQ5 (green) with a neuronal marker ("Milli-Mark" from Millipore, red) reveals partial localization with hilar interneurons (arrow points at an example).