

Datasheet for ABIN6656738
anti-KCNQ4 antibody (N-Term)

3 Images



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Overview

Quantity:	100 µg
Target:	KCNQ4
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KCNQ4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Fluorescence Microscopy (FM)

Product Details

Purpose:	KCNQ4 Antibody
Immunogen:	KCNQ4 Antibody was produced in mice by repeated immunizations raised against a fusion protein n-terminal region of human KCNQ4.
Clone:	N43-6
Isotype:	IgG1
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with KCNQ4 from Human, Rat, and Mouse based on 100 % homology with the immunizing sequence.
Purification:	Anti-KCNQ4 Antibody was purified by Protein G chromatography.
Sterility:	Sterile filtered

Target Details

Target:	KCNQ4
Alternative Name:	KCNQ4 (KCNQ4 Products)
Background:	<p>Synonyms: DFNA2, KQT like 4, Kv7.4, voltage gated potassium channel subunit Kv7.4, IKs producing slow voltage-gated potassium channel subunit alpha, KvLQT4, KQT-like 4, Potassium voltage-gated channel subfamily KQT member 4</p> <p>Background: Specifically, the protein encoded by this gene forms a potassium channel that is thought to play a critical role in the regulation of neuronal excitability, particularly in sensory cells of the cochlea. The current generated by this channel is inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anticonvulsant drug.</p> <p>Gene Name: KCNQ4</p>
Gene ID:	9132
NCBI Accession:	NP_004691
UniProt:	P56696
Pathways:	Sensory Perception of Sound

Application Details

Application Notes:	<p>Immunohistochemistry_Dilution: 0.1-1.0 µg/mL</p> <p>IF_Microscopy_Dilution: 1.0-10 µg/mL</p> <p>Western_Blot_Dilution: 1-10 µg/mL</p>
Comment:	Anti-KCNQ4 Antibody is tested for use in WB, IP, IHC and IF microscopy. Expect a band approximately ~77kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

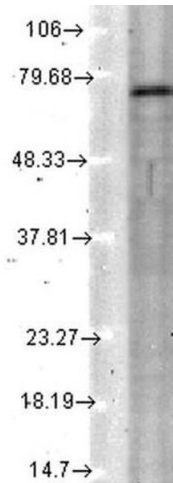
Handling

Format:	Liquid
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: 50 % (v/v) Glycerol</p>
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after

standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

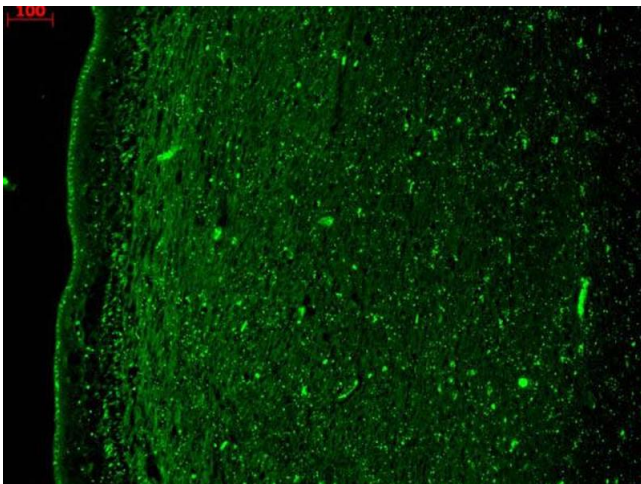
Expiry Date: 12 months

Images



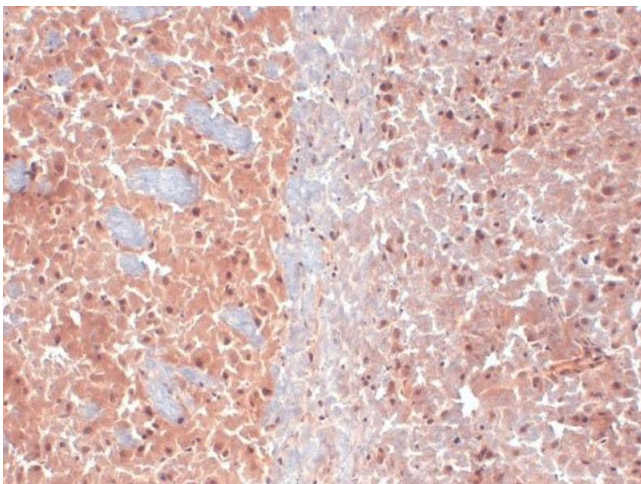
Western Blotting

Image 1. KCNQ4 Western Blot. Western Blot of mouse anti-KCNQ4 antibody. Lane 1: Rat Tissue Lysate. Primary antibody: KCNQ4 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Biotin overnight 4°C. Predicted/Observed size: 77.1 kDa/77 kDa for KCNQ4 total. Other band(s): none.



Immunofluorescence

Image 2. Immunohistochemistry of Anti-KCNQ4 Antibody. Immunohistochemistry of Anti-KCNQ4 Antibody. Tissue: human hippocampus. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Anti-KCNQ4 at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Immunohistochemistry

Image 3. KCNQ4 Immunohistochemistry. Immunohistochemistry of mouse anti-KCNQ4 antibody. Tissue: Frozen sections of mouse brain extract. Primary Antibody: KCNQ4 antibody at 1 µg/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Basal cell membrane. Staining: KCNQ4 as brown signal.