

Datasheet for ABIN2483175
anti-KCNQ4 antibody (AA 2-77) (Atto 594)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	KCNQ4
Binding Specificity:	AA 2-77
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KCNQ4 antibody is conjugated to Atto 594
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC), Antibody Array (AA)

Product Details

Immunogen:	Fusion protein amino acids 2-77 of human KCNQ4
Clone:	N43-6 (Formerly S43-6)
Isotype:	IgG1
Specificity:	Detects ~77 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	KCNQ4
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Target Details

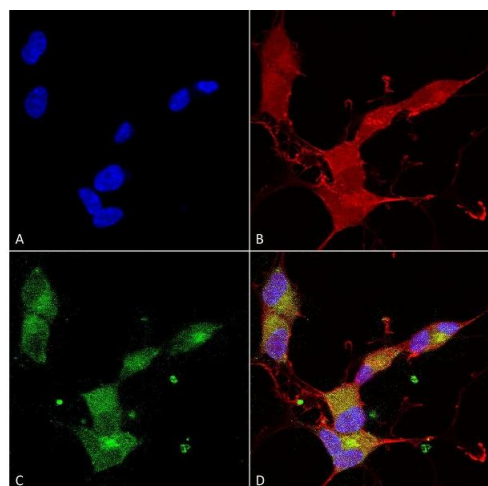
Alternative Name:	KCNQ4 (KCNQ4 Products)
Background:	<p>The protein encoded by this gene forms a potassium channel that is thought to play a critical role in the regulation of neuronal excitability (1), particularly in sensory cells of the cochlea (2).</p> <p>The current generated by this channel is inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug (3).</p>
Gene ID:	9132
NCBI Accession:	NP_004691
UniProt:	P56696
Pathways:	Sensory Perception of Sound

Application Details

Application Notes:	<ul style="list-style-type: none">• WB (1:1000)• IHC (1:1000)• ICC/IF (1:100)• optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2483175 was sufficient for detection of KCNQ4 in 10 µg of COS-1 cell lysate transiently expressing KCNQ4 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

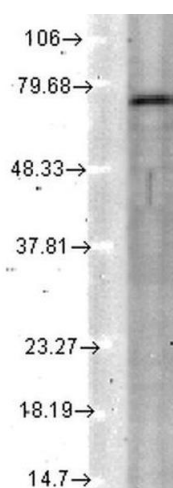
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
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:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



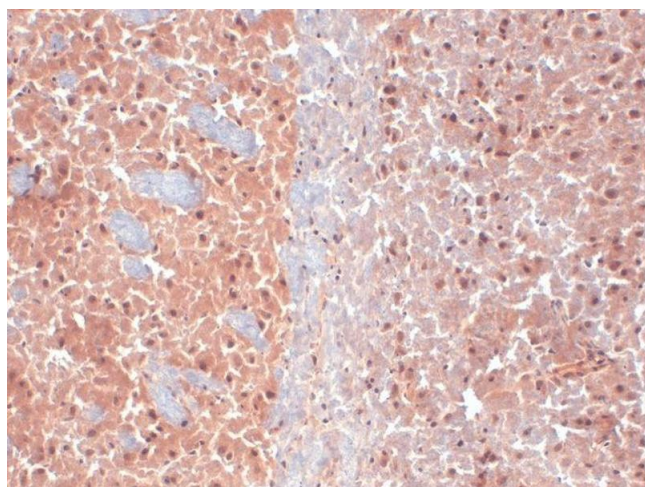
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-KCNQ4 Monoclonal Antibody, Clone N43/6 (ABIN2483175). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-KCNQ4 Monoclonal Antibody (ABIN2483175) at 1:100 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) KCNQ4 Antibody (green) stain. (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Rat tissue lysate showing detection of KCNQ4 protein using Mouse Anti-KCNQ4 Monoclonal Antibody, Clone S43-6. Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-KCNQ4 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Immunohistochemistry

Image 3. Immunohistochemistry analysis using Mouse Anti-KCNQ4 Monoclonal Antibody, Clone S43-6. Tissue: frozen brain section. Species: mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-KCNQ4 Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for 5 minutes at RT.

Images

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2483175.