

Datasheet for ABIN630098
anti-KCNQ2 antibody (Middle Region)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	KCNQ2
Binding Specificity:	Middle Region
Reactivity:	Rat, Human, Mouse, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNQ2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	KCNQ2 antibody was raised using the middle region of KCNQ2 corresponding to a region with amino acids GNVFATSALRSLRFLQILRMIRMDRRGGTWKLLGSVVYAHSKELVTAWYI
Specificity:	KCNQ2 antibody was raised against the middle region of KCNQ2
Purification:	Purified

Target Details

Target:	KCNQ2
Alternative Name:	KCNQ2 (KCNQ2 Products)
Background:	The M channel is a slowly activating and deactivating potassium channel that plays a critical role in the regulation of neuronal excitability. The M channel is formed by the association of the protein encoded by the KCNQ2 gene and a related protein encoded by the KCNQ3 gene, both

Target Details

integral membrane proteins. M channel currents are inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug. Defects in KCNQ2 are a cause of benign familial neonatal convulsions type 1 (BFNC), also known as epilepsy, benign neonatal type 1 (EBN1).

Molecular Weight: 43 kDa (MW of target protein)

Application Details

Application Notes: WB: 1.25 µg/mL, IHC: 4-8 µg/mL
Optimal conditions should be determined by the investigator.

Comment: KCNQ2 Blocking Peptide, catalog no. 33R-3461, is also available for use as a blocking control in assays to test for specificity of this KCNQ2 antibody

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Lyophilized powder. Add distilled water for a 1 mg/mL concentration of KCNQ2 antibody in PBS

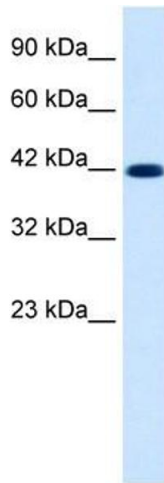
Concentration: Lot specific

Buffer: PBS

Handling Advice: Avoid repeated freeze/thaw cycles.
Dilute only prior to immediate use.

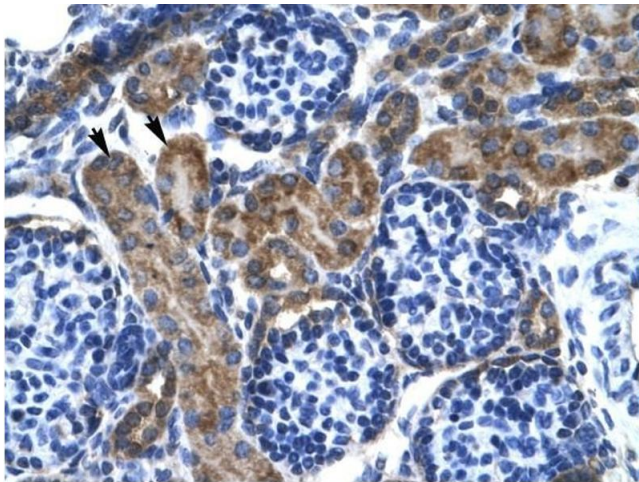
Storage: 4 °C/-20 °C

Storage Comment: Store at 2-8 °C for short periods. For longer periods of storage, store at -20 °C.



Western Blotting

Image 1. KCNQ2 antibody used at 1.25 ug/ml to detect target protein.



Immunohistochemistry

Image 2. KCNQ2 antibody was used for immunohistochemistry at a concentration of 4-8 ug/ml to stain Epithelial cells of renal tubule (arrows) in Human Kidney. Magnification is at 400X