

Rabbit KCNQ2 Polyclonal Antibody | anti-KCNQ2 antibody

KCNQ2 antibody - middle region

CATALOG # AAA197976	HOST Rabbit	REACTIVITY Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

KCNQ2; Polyclonal Antibody; KCNQ2 antibody - middle region; anti-KCNQ2 antibody

PRODUCT SPECIFICATIONS

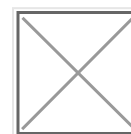
Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: SI AVLAAGSQGN VFATSALRSL RFLQILRMIR MDRRGGTWKL LGSVYYAH
Sequence Length	393
Applicable Applications for anti-KCNQ2 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Homology	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 92%; Rat: 100%; Zebrafish: 93%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human KCNQ2
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



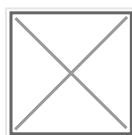
WB (Western Blot)

WB Suggested Anti-KCNQ2 Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:31250
Positive Control: NCI-H226 cell lysate
There is BioGPS gene expression data showing that KCNQ2 is expressed in NCIH226



WB (Western Blot)

Host: Mouse
Target Name: KCNQ2
Sample Tissue: Mouse Liver
Antibody Dilution: 1ug/ml



IHC (Immunohistochemistry)

Immunohistochemistry with Brain, cerebellum tissue at an antibody concentration of 5ug/ml using anti-KCNQ2 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-KCNQ2 antibody	This is a rabbit polyclonal antibody against KCNQ2. It was validated on Western Blot using a cell lysate as a positive control. Target Description: 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 KCNQ2 and a related protein encoded by the KCNQ3 gene, both 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).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 this gene and a related protein encoded by the KCNQ3 gene, both integral membrane proteins. M channel currents are inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug. Defects in this gene are a cause of benign familial neonatal convulsions type 1 (BFNC), also known as epilepsy, benign neonatal type 1 (EBN1). At least five transcript variants encoding five different isoforms have been found for this gene.
Product Categories/Family for anti-KCNQ2 antibody	Polyclonal; Ion Channel; Neurobiology; Membrane Protein; Membrane & Traffic; Disease Related; Immunohistochemistry

NCBI AND UNIPROT INFORMATION

NCBI GI #	26051268
NCBI GeneID	3785
NCBI Accession #	NP_742107
NCBI GenBank Nucleotide #	NM_172109
UniProt Accession #	Q53Y30; O43526
Molecular Weight	44kDa
NCBI Official Full Name	potassium voltage-gated channel subfamily KQT member 2 isoform e
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily Q member 2
NCBI Official Symbol	KCNQ2
NCBI Official Synonym Symbols	EBN; BFNC; EBN1; ENB1; HN5PC; KV7.2; KCNA11
NCBI Protein Information	potassium voltage-gated channel subfamily KQT member 2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/kcnq2-antibody-western-blot-immunohistochemistry-elisa/197976>