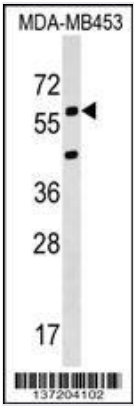
KCNS3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KCNS3, Polyclonal Antibody
Full Product Name	KCNS3, NT (KCNS3, Potassium voltage-gated channel subfamily S member 3, Delayed-rectifier K(+) channel alpha subunit 3, Voltage-gated potassium channel subunit Kv9.3) (AP)
Product Gene Name	anti-KCNS3 antibody
Product Synonym Names	KCNS3; Potassium voltage-gated channel subfamily S member 3; Delayed-rectifier K(+) channel alpha subunit 3; Voltage-gated potassium channel subunit Kv9.3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	AF043472 mRNA
3D Structure	ModBase 3D Structure for Q9BQ31
Immunogen	KCNS3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human KCNS3.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-KCNS3 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-KCNS3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-KCNS3 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-KCNS3 antibody	MBS6312753 is an antibody targeting KCNS3. Also known as KCNS3, NT (KCNS3, Potassium voltage-gated channel subfamily S member 3, Delayed-rectifier K(+) channel alpha subunit 3, Voltage-gated potassium channel subunit Kv9.3) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-KCNS3 antibody	Nyholt, D.R., et al. Hum. Mol. Genet. 17(21):3318-3331(2008). van Es, M.A., et al. Nat. Genet. 40(1):29-31(2008). Schymick, J.C., et al. Lancet Neurol 6(4):322-328(2007). Gutman, G.A., et al. Pharmacol. Rev. 57(4):473-508(2005). Kerschensteiner, D., et al. Proc. Natl. Acad. Sci. U.S.A. 102(17):6160-6165(2005).
Other Notes	Small volumes of anti-KCNS3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-KCNS3 antibody
KCNS3 Antibody (N-term) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the KCNS3 antibody detected the KCNS3 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNS3. It may not necessarily be applicable to this product.

NCBI GI #	25952108
NCBI GeneID	3790
NCBI Accession #	NP_002243.3
UniProt Primary Accession #	Q9BQ31
UniProt Related Accession #	Q9BQ31
GenBank Nucleotide #	NP_002243.3
NCBI Official Full Name	potassium voltage-gated channel subfamily S member 3
NCBI Official Synonym Full Names	potassium voltage-gated channel modifier subfamily S member 3
NCBI Official Symbol	KCNS3
NCBI Official Synonym Symbols	KV9.3
UniProt Protein Name	Potassium voltage-gated channel subfamily S member 3
UniProt Synonym Protein Names	Delayed-rectifier K(+) channel alpha subunit 3; Voltage-gated potassium channel subunit Kv9.3
Protein Family	Potassium voltage-gated channel subfamily
UniProt Gene Name	KCNS3
NCBI Protein Information	potassium voltage-gated channel subfamily S member 3
NCBI Summary for KCNS3	Voltage-gated potassium channels form the largest and most diversified class of ion channels and are present in both excitable and nonexcitable cells. Their main functions are associated with the regulation of the resting membrane potential and the control of the shape and frequency of action potentials. The alpha subunits are of 2 types: those that are functional by themselves and those that are electrically silent but capable of modulating the activity of specific functional alpha subunits. The protein encoded by this gene is not functional by itself but can form heteromultimers with member 1 and with member 2 (and possibly other members) of the Shab-related subfamily of potassium voltage-gated channel proteins. This gene belongs to the S subfamily of the potassium channel family. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Sep 2013]

UniProt Comments for KCNS3	Kv9.3: Potassium channel subunit. Modulates channel activity and reduces the ion flow. Belongs to the potassium channel family. S (TC 1.A.1.2) subfamily. Kv9.3/KCNS3 sub-subfamily. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 2p24.2 Cellular Component: cytosol; Golgi apparatus; integral component of membrane; plasma membrane; voltage-gated potassium channel complex Molecular Function: delayed rectifier potassium channel activity; potassium channel regulator activity Biological Process: potassium ion transport; protein homooligomerization; regulation of insulin secretion; regulation of molecular function
Research Articles on KCNS3	**1.** By in situ hybridization, KCNS3 mRNA levels were 23% lower in schizophrenia subjects than in controls. At the cellular level, both KCNS3 mRNA-expressing neuron density and KCNS3 mRNA level per neuron were significantly lower.
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