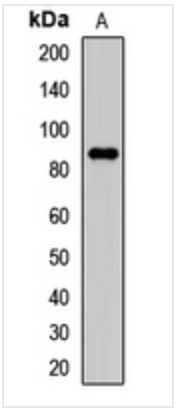
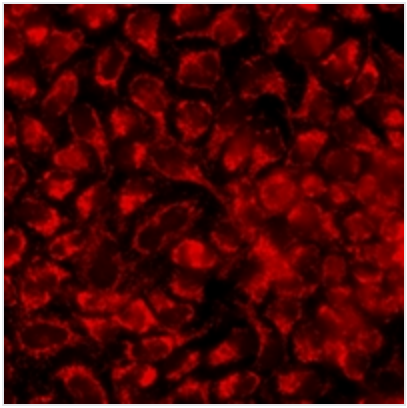
KV1.2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Kv1.2, Polyclonal Antibody
Full Product Name	Rabbit anti-Kv1.2 Antibody
Product Gene Name	anti-Kv1.2 antibody
Product Synonym Names	Potassium voltage-gated channel subfamily A member 2; NGK1; Voltage-gated K(+) channel HuKIV; Voltage-gated potassium channel HBK5; Voltage-gated potassium channel subunit Kv1.2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	40,966 Da
OMIM	176262
3D Structure	ModBase 3D Structure for P16389
Immunogen	Recombinant full length protein of human Kv1.2
Product Categories/Family for anti-Kv1.2 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-Kv1.2 antibody	Western Blot (WB), Immunofluorescence (IF), Immunochemistry (IC)
Application Notes for anti-Kv1.2 antibody	WB: 1:500-1:2000 IF:IC: 1:50-1:200
Related Product Information for anti-Kv1.2 antibody	MBS4510603 is an antibody targeting Kv1.2. Also known as Rabbit anti-Kv1.2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-Kv1.2 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-Kv1.2 antibody
Western blot analysis of Kv1.2 expression in mouse brain (A) whole cell lysates.



Immunofluorescence (IF) of anti-Kv1.2 antibody
Immunofluorescent analysis of Kv1.2 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Kv1.2. It may not necessarily be applicable to this product.

NCBI GI #	324022755
NCBI GeneID	3737
NCBI Accession #	NP_001191198.1
UniProt Primary Accession #	P16389
UniProt Secondary Accession #	P63141; P63142
UniProt Related Accession #	P16389
GenBank Nucleotide #	NM_001204269.1
NCBI Official Full Name	potassium voltage-gated channel subfamily A member 2 isoform b
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily A member 2
NCBI Official Symbol	KCNA2
NCBI Official Synonym Symbols	HK4; MK2; HBK5; NGK1; RBK2; HUKIV; KV1.2; EIEE32
UniProt Protein Name	Potassium voltage-gated channel subfamily A member 2
UniProt Synonym Protein Names	NGK1; Voltage-gated K(+) channel HuKIV
Protein Family	Potassium voltage-gated channel subfamily
UniProt Gene Name	KCNA2
UniProt Entry Name	KCNA2_HUMAN
NCBI Protein Information	potassium voltage-gated channel subfamily A member 2

NCBI Summary for Kv1.2	Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the delayed rectifier class, members of which allow nerve cells to efficiently repolarize following an action potential. The coding region of this gene is intronless, and the gene is clustered with genes KCNA3 and KCNA10 on chromosome 1. [provided by RefSeq, Jul 2008]
UniProt Comments for Kv1.2	Kv1.2: Mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient. Belongs to the potassium channel family. A (Shaker) (TC 1.A.1.2) subfamily. Kv1.2/KCNA2 sub-subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Channel, potassium; Membrane protein, integral Chromosomal Location of Human Ortholog: 1p13 Cellular Component: axon; cell junction; dendrite; endoplasmic reticulum membrane; integral to plasma membrane; lamellipodium; nerve terminal; perikaryon; plasma membrane; presynaptic membrane; voltage-gated potassium channel complex Molecular Function: delayed rectifier potassium channel activity; potassium channel activity; protein binding; voltage-gated potassium channel activity Biological Process: generation of action potential; optic nerve structural organization; potassium ion transport; protein homooligomerization; regulation of circadian sleep/wake cycle, non-REM sleep; regulation of dopamine secretion; sensory perception of pain Disease: Epileptic Encephalopathy, Early Infantile, 32
Research Articles on Kv1.2	**1.** This gene has not been previously described as a cause of disease in humans, but mutations of the orthologous gene in mice (Kcna2) are known to cause both ataxia and convulsions
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