

Human Potassium Voltage-Gated Channel Subfamily A Member 2 (KCNA2) ELISA Kit | KCNA2 elisa kit

Human Potassium Voltage-Gated Channel Subfamily A Member 2 (KCNA2) ELISA Kit

CATALOG # AAA331950	REACTIVITY Human
-------------------------------	----------------------------

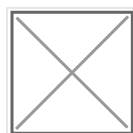
PRODUCT SYNONYMS

Potassium Voltage-Gated Channel Subfamily A Member 2 (KCNA2); Human Potassium Voltage-Gated Channel Subfamily A Member 2 (KCNA2) ELISA Kit; KCNA2; HBK5; HK4; HUKIV; KV1.2; MGC50217; MK2; NGK1; RBK2; potassium channel; voltage-gated potassium channel protein Kv1.2; KCNA2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Potassium voltage-gated channel subfamily A member 2 (KCNA2) ELISA Kit has high sensitivity and excellent specificity for detection of Human KCNA2. No significant cross-reactivity or interference between Human KCNA2 and analogues was observed.
Sequence Length	356
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Potassium voltage-gated channel subfamily A member 2 (KCNA2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for KCNA2 elisa kit	Description: This Human Potassium voltage-gated channel subfamily A member 2 (KCNA2) ELISA Kit employs a two-site sandwich ELISA to quantitate KCNA2 in samples. An antibody specific for KCNA2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any KCNA2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KCNA2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of KCNA2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: 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). KCNA2 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 KCNA2 is intronless, and the gene is clustered with genes KCNA3 and KCNA10 on chromosome 1.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	324022755
NCBI GeneID	3737
NCBI Accession #	NP_001191198.1
NCBI GenBank Nucleotide #	NP_001191198.1
UniProt Accession #	P16389
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
NCBI Protein Information	potassium voltage-gated channel subfamily A member 2
UniProt Protein Name	Potassium voltage-gated channel subfamily A member 2
UniProt Gene Name	KCNA2
UniProt Entry Name	KCNA2_HUMAN

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.