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Product datasheet for TA321087

KCNA1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Human brain malignant glioma tissue IHC: 15-50 Positive control: Human cervical cancer Predicted cell location: Cytoplasm, Cell membrane
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 460-472 amino acids of Human potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia)
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	56 kDa
Gene Name:	potassium voltage-gated channel subfamily A member 1
Database Link:	NP_000208 Entrez Gene 16485 MouseEntrez Gene 24520 RatEntrez Gene 3736 Human Q09470

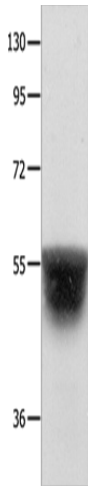
View online »

Background: This gene encodes a voltage-gated delayed potassium channel that is phylogenetically related to the Drosophila Shaker channel. The encoded protein has six putative transmembrane segments (S1-S6); and the loop between S5 and S6 forms the pore and contains the conserved selectivity filter motif (GYGD). The functional channel is a homotetramer. The N-terminus of the channel is associated with beta subunits that can modify the inactivation properties of the channel as well as affect expression levels. The C-terminus of the channel is complexed to a PDZ domain protein that is responsible for channel targeting. Mutations in this gene have been associated with myokymia with periodic ataxia (AEMK).

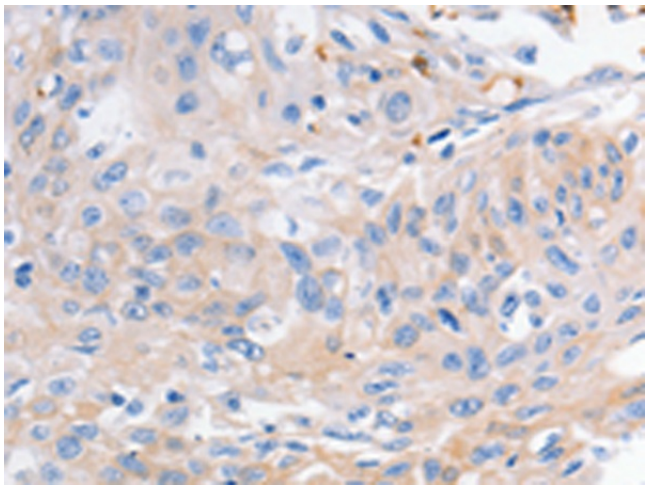
Synonyms: AEMK; EA1; HBK1; HUK1; KV1.1; MBK1; MK1; RBK1

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

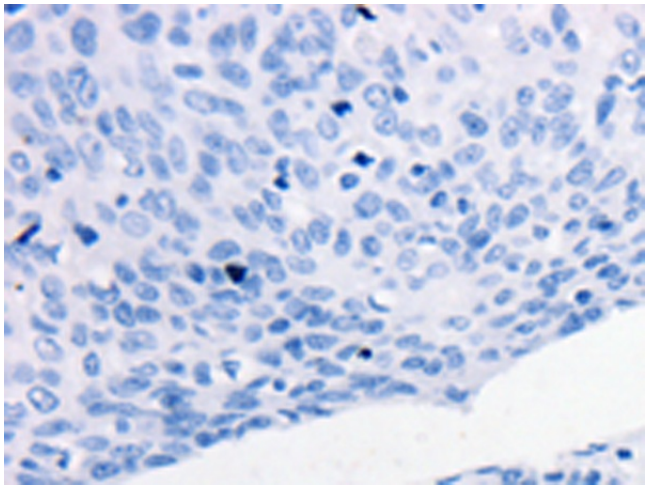
Product images:



Gel: 8%SDS-PAGE
Lysate: 40 µg
Lane: Human brain malignant glioma tissue
Primary antibody: TA321087 (KCNA1 Antibody) at dilution 1/400
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 20 seconds



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA321087 (KCNA1 Antibody) at dilution 1/30 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA321087 (KCNA1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: ×200)