

Product datasheet for **TA351324S**

KCNQ4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Human fetal brain and mouse brain tissue IHC: 50-200 Positive control: Human liver cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human KCNQ4
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
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:	77 kDa
Gene Name:	potassium voltage-gated channel subfamily Q member 4
Database Link:	NP_751895 Entrez Gene 60613 Mouse Entrez Gene 9132 Human P56696



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Background:

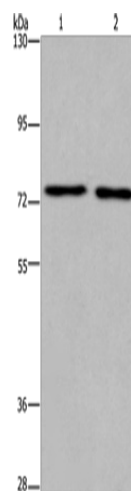
The protein encoded by this gene forms a potassium channel that is thought to play a critical role in the regulation of neuronal excitability, particularly in sensory cells of the cochlea. The current generated by this channel is inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug. The encoded protein can form a homomultimeric potassium channel or possibly a heteromultimeric channel in association with the protein encoded by the KCNQ3 gene. Defects in this gene are a cause of nonsyndromic sensorineural deafness type 2 (DFNA2), an autosomal dominant form of progressive hearing loss. Two transcript variants encoding different isoforms have been found for this gene.

Synonyms:

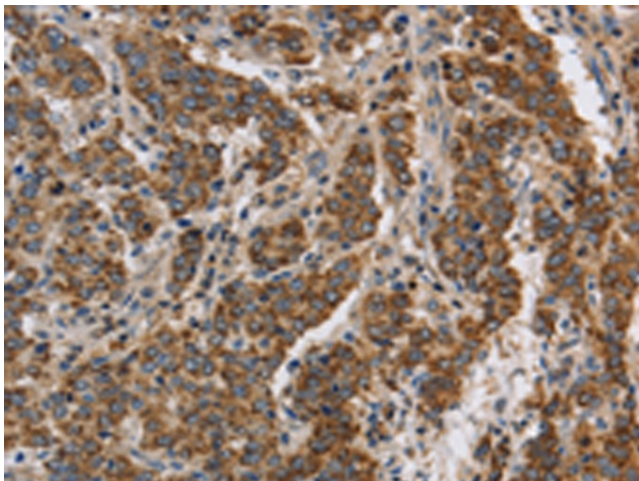
DFNA2; DFNA2A; KV7.4

Protein Families:

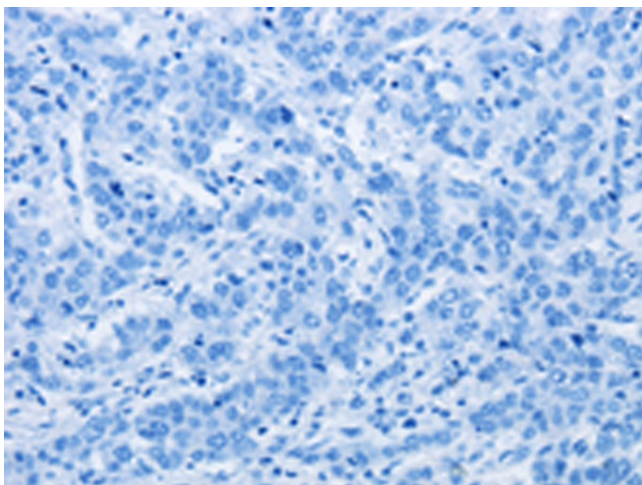
Druggable Genome, Ion Channels: Potassium, Transmembrane

Product images:

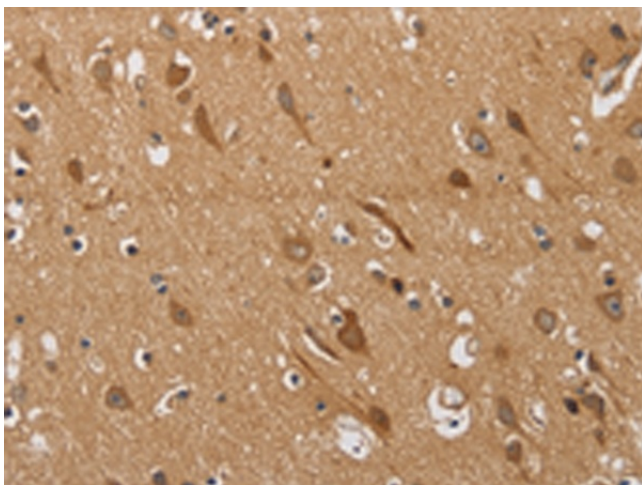
Gel: 6%SDS-PAGE
Lysate: 40 µg
Lane 1-2: Human fetal brain tissue
mouse brain tissue
Primary antibody: [TA351324] (KCNQ4 Antibody)
at dilution 1/200
Secondary antibody: Goat anti rabbit IgG at
1/8000 dilution
Exposure time: 7 minutes



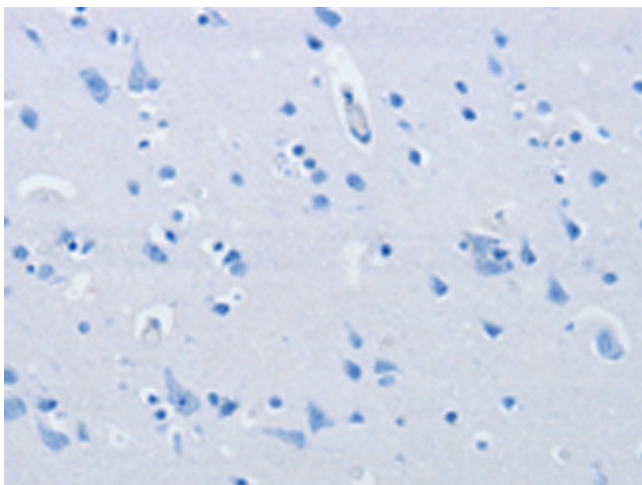
Immunohistochemistry of paraffin-embedded
Human liver cancer tissue using [TA351324]
(KCNQ4 Antibody) at dilution 1/40 (Original
magnification: x200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA351324] (KCNQ4 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using [TA351324] (KCNQ4 Antibody) at dilution 1/40 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using [TA351324] (KCNQ4 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: ×200)