

Kv7.4 polyclonal antibody

Catalog: BS5773

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Epilepsy affects about 0.5% of the world's population and has a large genetic component. Epilepsy results from an electrical hyperexcitability in the central nervous system. Potassium channels are important regulators of electrical signaling, determining the firing properties and responsiveness of a variety of neurons. Benign familial neonatal convulsions (BFNC), an autosomal dominant epilepsy of infancy, has been shown to be caused by mutations in the KCNQ2 or the KCNQ3 potassium channel genes. KCNQ2 and KCNQ3 are voltage-gated potassium channel proteins with six putative transmembrane domains. Both proteins display a broad distribution within the brain, with expression patterns that largely overlap. Mutations of KCNQ4 affect the functions of sensory outer hair cells and lead to deafness.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 77 kDa

Swiss-Prot:

P56696

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

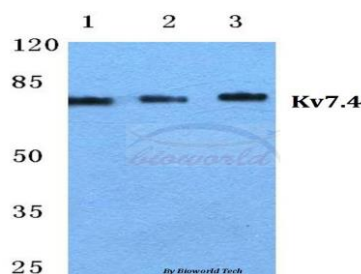
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Kv7.4 polyclonal antibody detects endogenous levels of Kv7.4 protein.

DATA:



Western blot (WB) analysis of Kv7.4 polyclonal antibody at 1:500 dilution

Lane1:Hela cell lysate

Lane2:Mouse liver tissue lysate

Lane3:Rat liver tissue lysate

Note:

For research use only, not for use in diagnostic procedure.

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