

Anti-Kv7.5 Antibody
Rabbit polyclonal antibody to Kv7.5
Catalog # AP60906**Specification**

Anti-Kv7.5 Antibody - Product Information

Application	WB
Primary Accession	O9NR82
Other Accession	O9JK45
Reactivity	Human, Mouse, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	102179

Anti-Kv7.5 Antibody - Additional Information**Gene ID** 56479**Other Names**

Potassium voltage-gated channel subfamily KQT member 5; KQT-like 5; Potassium channel subunit alpha KvLQT5; Voltage-gated potassium channel subunit Kv7.5

Target/Specificity

Recognizes endogenous levels of Kv7.5 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-Kv7.5 Antibody - Protein Information**Name** KCNQ5**Function**

Associates with KCNQ3 to form a potassium channel which contributes to M-type current, a slowly activating and deactivating potassium conductance which plays a critical role in determining the subthreshold electrical excitability of neurons. Therefore, it is important in the regulation of neuronal excitability. May contribute, with other potassium channels, to the molecular diversity of a heterogeneous population of M-channels, varying in kinetic and pharmacological properties, which underlie this physiologically important current. Insensitive to tetraethylammonium, but inhibited by barium, linopirdine and XE991. Activated by niflumic acid and the anticonvulsant retigabine. As the native M-channel, the potassium channel composed of KCNQ3 and KCNQ5 is

also suppressed by activation of the muscarinic acetylcholine receptor CHRM1.

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

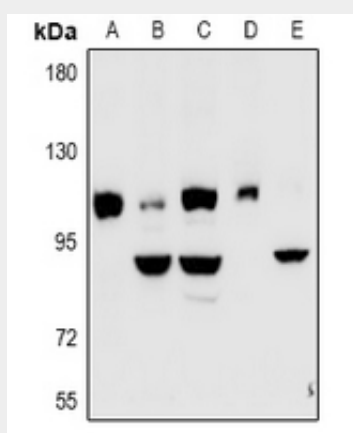
Strongly expressed in brain and skeletal muscle. In brain, expressed in cerebral cortex, occipital pole, frontal lobe and temporal lobe. Lower levels in hippocampus and putamen. Low to undetectable levels in medulla, cerebellum and thalamus

Anti-Kv7.5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Kv7.5 Antibody - Images



Western blot analysis of Kv7.5 expression in HEK293T (A), COS7 (B), C6 (C), CT26 (D), MG63 (E) whole cell lysates.

Anti-Kv7.5 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Kv7.5. The exact sequence is proprietary.