

KCNJ10 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17230c**Specification**

KCNJ10 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P78508](#)**KCNJ10 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 3766**Other Names**

ATP-sensitive inward rectifier potassium channel 10, ATP-dependent inwardly rectifying potassium channel Kir41, Inward rectifier K(+) channel Kir12, Potassium channel, inwardly rectifying subfamily J member 10, KCNJ10

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

KCNJ10 Antibody (Center) Blocking Peptide - Protein Information**Name** KCNJ10**Function**

May be responsible for potassium buffering action of glial cells in the brain. Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium. Can be blocked by extracellular barium and cesium (By similarity). In the kidney, together with KCNJ16, mediates basolateral K(+) recycling in distal tubules; this process is critical for Na(+) reabsorption at the tubules.

Cellular Location

Membrane; Multi-pass membrane protein. Basolateral cell membrane. Note=In kidney distal convoluted tubules, located in the basolateral membrane where it colocalizes with KCNJ16.

Tissue Location

Expressed in kidney (at protein level).

KCNJ10 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KCNJ10 Antibody (Center) Blocking Peptide - Images

KCNJ10 Antibody (Center) Blocking Peptide - Background

This gene encodes a member of the inward rectifier-type potassium channel family, characterized by having a greater tendency to allow potassium to flow into, rather than out of, a cell. The encoded protein may form a heterodimer with another potassium channel protein and may be responsible for the potassium buffering action of glial cells in the brain. Mutations in this gene have been associated with seizure susceptibility of common idiopathic generalized epilepsy syndromes.

KCNJ10 Antibody (Center) Blocking Peptide - References

Jonard, L., et al. Int. J. Pediatr. Otorhinolaryngol. 74(9):1049-1053(2010) Reichold, M., et al. Proc. Natl. Acad. Sci. U.S.A. 107(32):14490-14495(2010) Heuser, K., et al. Epilepsy Res. 88(1):55-64(2010) Pawelczyk, M., et al. Ann. Hum. Genet. 73 (PT 4), 411-421 (2009) :Yang, T., et al. Am. J. Hum. Genet. 84(5):651-657(2009)