

**KCNJ4 / Kir2.3 Antibody (aa390-445, clone S25-35)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS14986****Specification**

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**KCNJ4 / Kir2.3 Antibody (aa390-445, clone S25-35) - Product Information**

Application	IF, WB, IHC
Primary Accession	<a href="#">P48050</a>
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	50kDa KDa

**KCNJ4 / Kir2.3 Antibody (aa390-445, clone S25-35) - Additional Information****Gene ID** 3761**Other Names**

Inward rectifier potassium channel 4, HIRK2, HRK1, Hippocampal inward rectifier, HIR, Inward rectifier K(+) channel Kir2.3, IRK-3, Potassium channel, inwardly rectifying subfamily J member 4, KCNJ4, IRK3

**Target/Specificity**

Detects ~45 kD protein. No cross reactivity against Kir2.1, or Kir2.2.

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions**

KCNJ4 / Kir2.3 Antibody (aa390-445, clone S25-35) is for research use only and not for use in diagnostic or therapeutic procedures.

**KCNJ4 / Kir2.3 Antibody (aa390-445, clone S25-35) - Protein Information****Name** KCNJ4**Synonyms** IRK3**Function**

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).

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane; Multi-pass membrane

protein. Cytoplasmic vesicle membrane. Note=TAX1BP3 binding promotes dissociation of KCNJ4 from LIN7 family members and KCNJ4 internalization.

#### **Tissue Location**

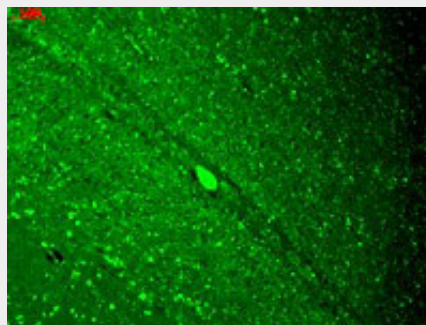
Heart, skeletal muscle, and several different brain regions including the hippocampus

#### **KCNJ4 / Kir2.3 Antibody (aa390-445, clone S25-35) - 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](#)

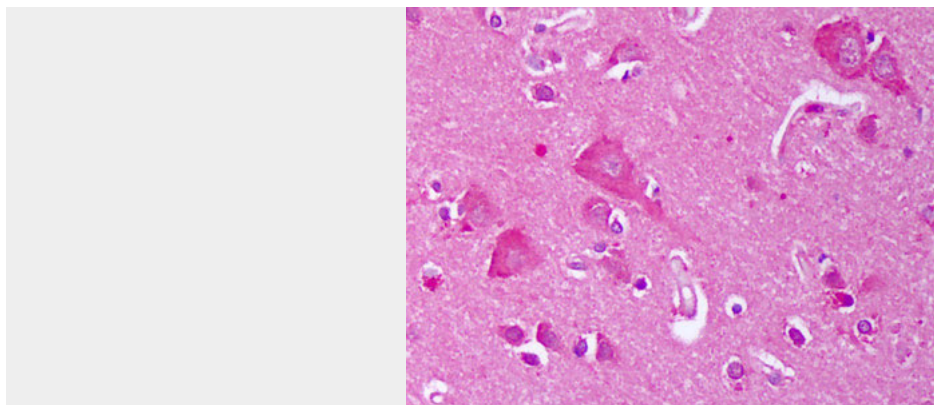
#### **KCNJ4 / Kir2.3 Antibody (aa390-445, clone S25-35) - Images**



Kir2.3 (S25-35), Human hippocampus.



Kir2 3 (S25-35), Human cell line mix.



Anti-KCNJ4 / Kir2.3 antibody IHC of human brain, cortex neurons.

#### **KCNJ4 / Kir2.3 Antibody (aa390-445, clone S25-35) - Background**

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#### **KCNJ4 / Kir2.3 Antibody (aa390-445, clone S25-35) - References**

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- Tang W.,et al.FEBS Lett. 348:239-243(1994).
- Makhina E.N.,et al.J. Biol. Chem. 269:20468-20474(1994).
- Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
- Dunham I.,et al.Nature 402:489-495(1999).