

**KCNJ11 / Kir6.2 Antibody (aa190-239)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS15093****Specification**

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**KCNJ11 / Kir6.2 Antibody (aa190-239) - Product Information**

Application	IF, WB, IHC
Primary Accession	<a href="#">Q14654</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44kDa KDa

**KCNJ11 / Kir6.2 Antibody (aa190-239) - Additional Information****Gene ID** 3767**Other Names**

ATP-sensitive inward rectifier potassium channel 11, IKATP, Inward rectifier K(+) channel Kir6.2, Potassium channel, inwardly rectifying subfamily J member 11, KCNJ11

**Target/Specificity**

Kir6.2 Antibody detects endogenous levels of total Kir6.2 protein.

**Reconstitution & Storage**

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

**Precautions**

KCNJ11 / Kir6.2 Antibody (aa190-239) is for research use only and not for use in diagnostic or therapeutic procedures.

**KCNJ11 / Kir6.2 Antibody (aa190-239) - Protein Information****Name** KCNJ11**Function**

This receptor is controlled by G proteins. 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 (By similarity). Subunit of ATP-sensitive potassium channels (KATP). Can form cardiac and smooth muscle-type KATP channels with ABCC9. KCNJ11 forms the channel pore while ABCC9 is required for activation and regulation.

**Cellular Location**

Membrane; Multi-pass membrane protein.

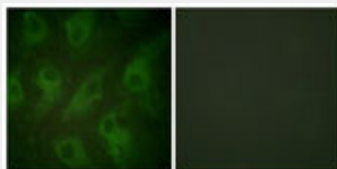
**Volume**  
50 µl

### KCNJ11 / Kir6.2 Antibody (aa190-239) - Protocols

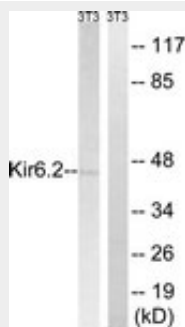
Provided below are standard protocols that you may find useful for product applications.

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

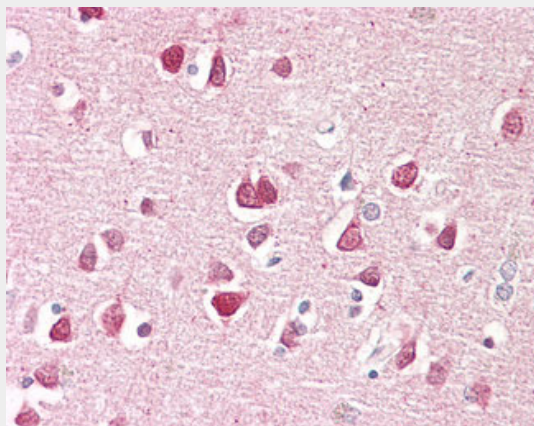
### KCNJ11 / Kir6.2 Antibody (aa190-239) - Images



Immunofluorescence of HeLa cells, using Kir6.2 Antibody.



Western blot of extracts from 3T3 cells, using Kir6.2 Antibody.



Anti-KCNJ11 / Kir6.2 antibody IHC of human brain, cortex.

### KCNJ11 / Kir6.2 Antibody (aa190-239) - Background

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#### **KCNJ11 / Kir6.2 Antibody (aa190-239) - References**

Inagaki N.,et al.Science 270:1166-1170(1995).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Taylor T.D.,et al.Nature 440:497-500(2006).  
Babenko A.P.,et al.Circ. Res. 83:1132-1143(1998).  
Ribalet B.,et al.Biophys. J. 84:266-276(2003).