

**Kir2.3 Antibody**  
**Kir2.3 Antibody, Clone S25-35**  
**Catalog # ASM10190**

**Specification**

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**Kir2.3 Antibody - Product Information**

Application	<b>IHC, WB</b>
Primary Accession	<a href="#">P48050</a>
Other Accession	<a href="#">NP_004972.1</a>
Host	<b>Mouse</b>
Isotype	<b>IgG1</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Monoclonal</b>

**Description**

Mouse Anti-Human Kir2.3 Monoclonal IgG1

**Target/Specificity**

Detects ~45kDa. No cross-reactivity against Kir2.1 or Kir2.2.

**Other Names**

IRK3 Antibody, HIR Antibody, HIRK2 Antibody, HRK1 Antibody, KCNJ4 Antibody, potassium inwardly rectifying channel subfamily J member 4 Antibody

**Immunogen**

Fusion protein amino acids 390-445 of human Kir2.3

**Purification**

Protein G Purified

Storage **-20°C**

**Storage Buffer**

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature **Blue Ice or 4°C**

**Certificate of Analysis**

1 µg/ml of SMC-312 was sufficient for detection of Kir2.3 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

Cell Membrane | Cytoplasmic Vesicle Membrane

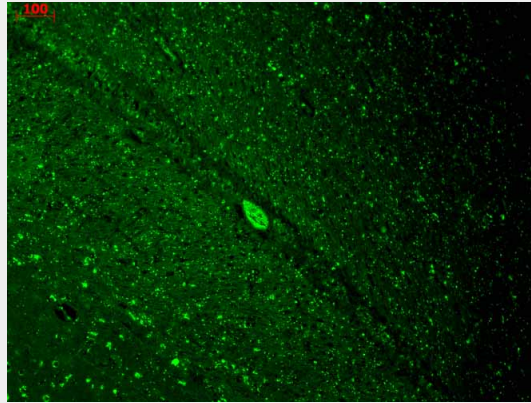
**Kir2.3 Antibody - Protocols**

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

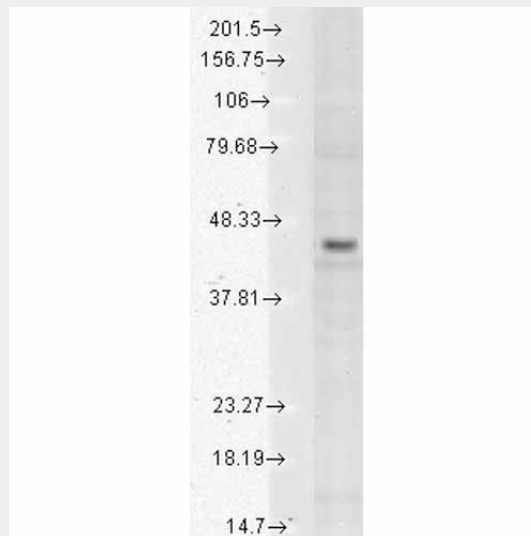
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Kir2.3 Antibody - Images



Immunohistochemistry analysis using Mouse Anti-Kir2.3 Potassium Channel Monoclonal Antibody, Clone S25-35 (ASM10190). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Kir2.3 Potassium Channel Monoclonal Antibody (ASM10190) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Western Blot analysis of Human Cell lysates showing detection of Kir2.3 Potassium Channel protein using Mouse Anti-Kir2.3 Potassium Channel Monoclonal Antibody, Clone S25-35 (ASM10190). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Kir2.3 Potassium Channel Monoclonal Antibody (ASM10190) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

### Kir2.3 Antibody - Background

Several different potassium channels are known to be involved with electrical signaling in the nervous system. One class is activated by depolarization whereas a second class is not. The latter are referred to as inwardly rectifying K<sup>+</sup> channels, and they have a greater tendency to allow potassium to flow into the cell rather than out of it. This asymmetry in potassium ion conductance plays a key role in the excitability of muscle cells and neurons. The protein encoded by this gene is

an integral membrane protein and member of the inward rectifier potassium channel family. The encoded protein has a small unitary conductance compared to other members of this protein family. Two transcript variants encoding the same protein have been found for this gene (1-3).

### **Kir2.3 Antibody - References**

1. Zobel C., et al. (2003) J Physiol. 550: 365-372.
2. Panama B.K., McLerie M., and Lopatin A.N. (2007) Am J Physiol Heart Circ Physiol. 293: H3558-H3567.
3. Munoz V., et al. (2007) Heart Rhythm. 4(4): 487-496.