

**Kir2.1 Antibody**  
**Kir2.1 Antibody, Clone S112B-14**  
**Catalog # ASM10188**

**Specification**

**Kir2.1 Antibody - Product Information**

Application	WB, IHC, ICC, AM
Primary Accession	<a href="#">P35561</a>
Other Accession	<a href="#">NP_032451</a>
Host	Mouse
Isotype	IgG1
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Monoclonal
<b>Description</b>	Mouse Anti-Mouse Kir2.1 Monoclonal IgG1

**Target/Specificity**

Detects ~45kDa. No cross-reactivity against Kir2.2 or Kir2.3.

**Other Names**

HHBIRK1 Antibody, HHIRK1 Antibody, HIRK 1 Antibody, IRK1 Antibody, KCNJ2 Antibody, LQT7 Antibody, SQT3 Antibody, potassium inwardly rectifying channel J2 Antibody

**Immunogen**

Fusion protein amino acids 41-64 and 189-428 of mouse Kir2.1

**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-310 was sufficient for detection of Kir2.1 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

Membrane

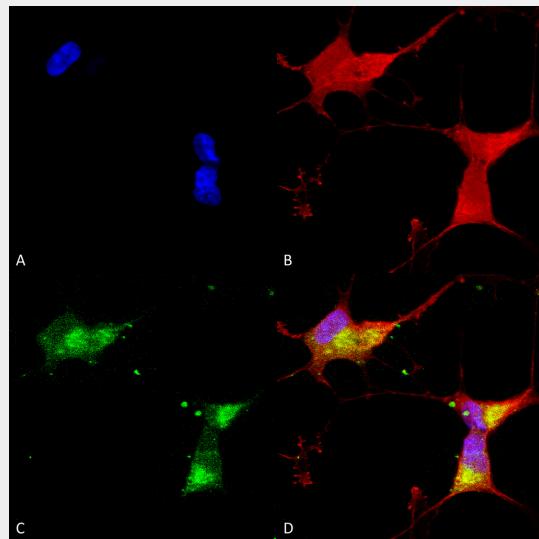
**Kir2.1 Antibody - Protocols**

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

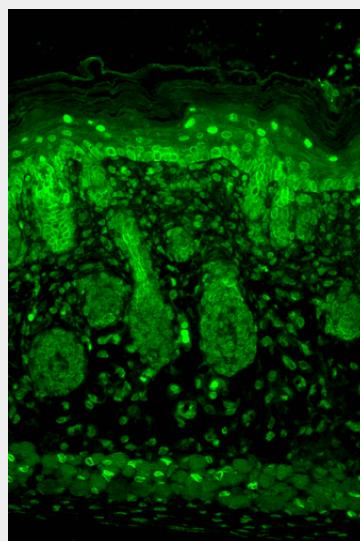
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

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

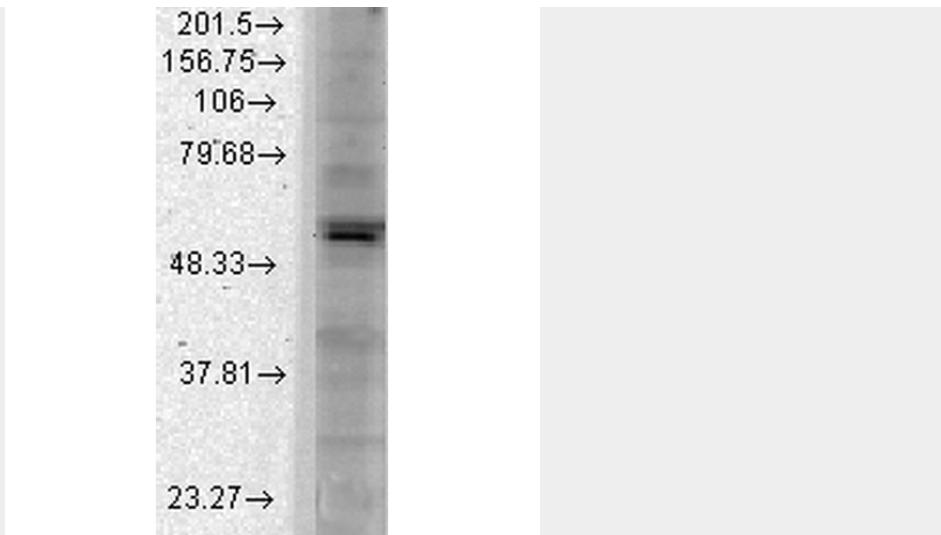
### Kir2.1 Antibody - Images



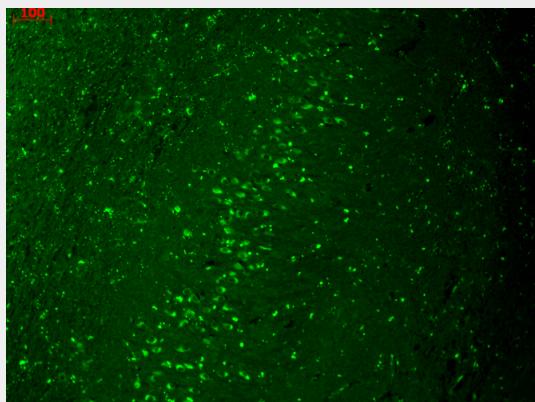
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Kir2.1 Monoclonal Antibody, Clone S112 (ASM10188). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-Kir2.1 Monoclonal Antibody (ASM10188) at 1:50 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Kir2.1 Antibody (D) Composite.



Immunohistochemistry analysis using Mouse Anti-Kir2.1 Potassium Channel Monoclonal Antibody, Clone S112 (ASM10188). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Kir2.1 Potassium Channel Monoclonal Antibody (ASM10188) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Nuclear expression in the epidermis and hair follicles.



Western Blot analysis of Monkey COS transient cell lysate showing detection of Kir2.1 Potassium Channel protein using Mouse Anti-Kir2.1 Potassium Channel Monoclonal Antibody, Clone S112 (ASM10188). Load: 15  $\mu$ g. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Kir2.1 Potassium Channel Monoclonal Antibody (ASM10188) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Immunohistochemistry analysis using Mouse Anti-Kir2.1 Potassium Channel Monoclonal Antibody, Clone S112 (ASM10188). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Kir2.1 Potassium Channel Monoclonal Antibody (ASM10188) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.

### **Kir2.1 Antibody - Background**

The Kir2.1 inward-rectifier potassium ion channel is encoded by the KCNJ2 gene. A defect in this gene is associated with Andersen-Tawil syndrome (1).

### **Kir2.1 Antibody - References**

1. Donaldson M.R., Yoon G., Fu Y.H., Ptacek L.J. (2004). Ann. Med. 36 Suppl 1: 92-7.