

## KIR3.1 Polyclonal Antibody

| Catalog No         | YP-Ab-16443  |
|--------------------|--|
| Isotype            | lgG  |
| Reactivity         | Human;Mouse;Rat  |
| Applications       | WB;IHC   |
| Gene Name          | KCNJ3  |
| Protein Name       | G protein-activated inward rectifier potassium channel 1   |
| Immunogen          | The antiserum was produced against synthesized peptide derived from human GIRK1/KIR3.1/KCNJ3. AA range:151-200   |
| Specificity        | KIR3.1 Polyclonal Antibody detects endogenous levels of KIR3.1 protein.  |
| Formulation        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| Source             | Polyclonal, Rabbit,IgG   |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| Dilution           | WB 1:500-2000;IHC-p 1:50-300   |
| Concentration      | 1 mg/ml  |
| Purity             | ≥90%   |
| Storage Stability  | -20°C/1 year   |
| Synonyms           | KCNJ3; GIRK1; G protein-activated inward rectifier potassium channel 1; GIRK-1;<br>Inward rectifier K(+) channel Kir3.1; Potassium channel; inwardly rectifying<br>subfamily J member 3  |
| Observed Band      | 56kD   |
| Cell Pathway       | Membrane; Multi-pass membrane protein.   |
| Tissue Specificity | Brain,Epithelium,  |
| Function           | function: This potassium channel 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. This receptor plays a crucial role in regulating the heartbeat., similarity:Belongs to the inward rectifier-type potassium channel family., subunit:Associates with GIRK2, GIRK3 or GIRK4 to form a G-protein activated heteromultimer pore-forming unit. The resulting inward current is much |
|                    | larger.,   |

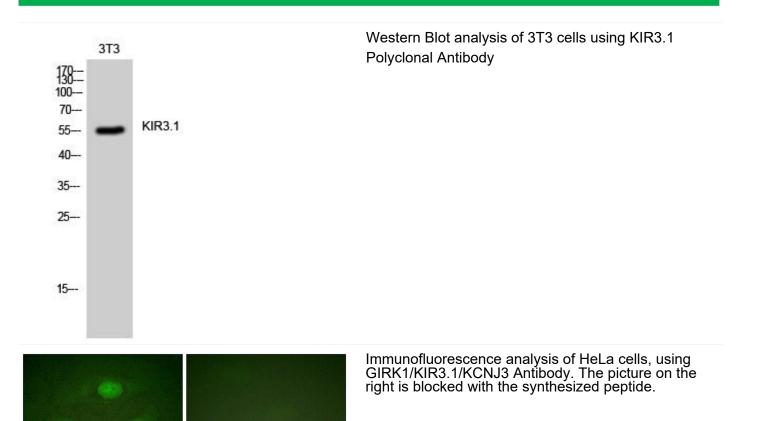


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| Background                | Potassium channels are present in most mammalian cells, where they participate<br>in a wide range of physiologic responses. The protein encoded by this gene is an<br>integral membrane protein and inward-rectifier type potassium channel. The<br>encoded protein, which has a greater tendency to allow potassium to flow into a<br>cell rather than out of a cell, is controlled by G-proteins and plays an important<br>role in regulating heartbeat. It associates with three other G-protein-activated<br>potassium channels to form a heteromultimeric pore-forming complex that also<br>couples to neurotransmitter receptors in the brain and whereby channel activation<br>can inhibit action potential firing by hyperpolarizing the plasma membrane. These<br>multimeric G-protein-gated inwardly-rectifying potassium (GIRK) channels may<br>play a role in the pathophysiology of epilepsy, addiction, Down's syndrome,<br>at |
|---------------------------|--|
| matters needing attention | Avoid repeated freezing and thawing!   |
| Usage suggestions         | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.  |

## **Products Images**



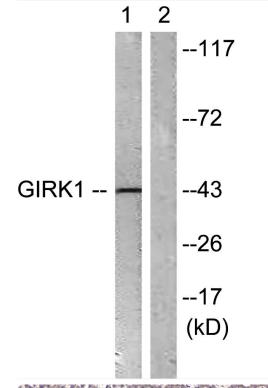
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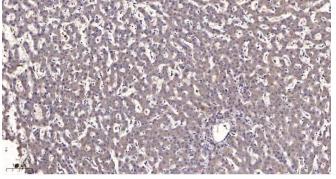


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Western blot analysis of lysates from NIH/3T3 cells, using GIRK1/KIR3.1/KCNJ3 Antibody. The lane on the right is blocked with the synthesized peptide.

Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).