

# Anti-Kir6.2 (Phospho-T224) Antibody

Catalog # AP61079

## Product Information

|                   |                                        |
|-------------------|----------------------------------------|
| Application       | WB, IHC, IF/IC                         |
| Primary Accession | <a href="#">Q14654</a>                 |
| Reactivity        | Human, Mouse, Rat, Rabbit, Pig, Bovine |
| Host              | Rabbit                                 |
| Clonality         | Polyclonal                             |
| Calculated MW     | 43526                                  |

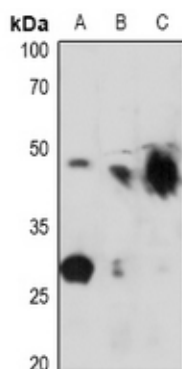
## Additional Information

|                    |                                                                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| Target/Specificity | KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding T224 of human Kir6.2 protein. The exact sequence is proprietary.                |
| Dilution           | WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/100), IF/IC (1/100 - 1/500) IHC~~WB (1/500 - 1/1000), IHC (1/50 - 1/100), IF/IC (1/100 - 1/500) IF/IC~~N/A             |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                                                     |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                                                     |

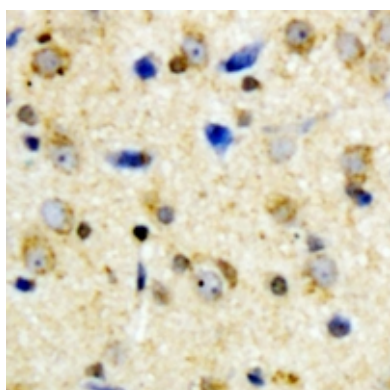
## Protein Information

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | KCNJ11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Function | Inward rectifier potassium channel that forms the pore of ATP-sensitive potassium channels (KATP), regulating potassium permeability as a function of cytoplasmic ATP and ADP concentrations in many different cells (PubMed: <a href="#">29286281</a> , PubMed: <a href="#">34815345</a> ). 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). In pancreatic cells, it forms KATP channels with ABCC8/SUR1 (PubMed: <a href="#">29286281</a> , PubMed: <a href="#">34815345</a> ). Can form cardiac and smooth muscle-type KATP channels with ABCC9. |

## Images



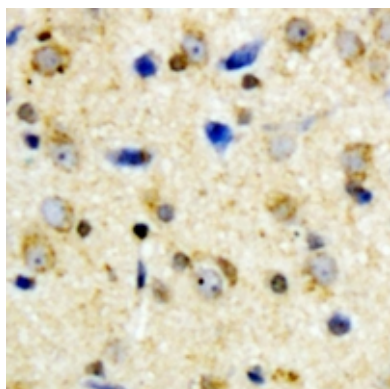
Western blot analysis of Kir6.2 (Phospho-T224) expression in MCF7 (A), mouse liver (B), rat liver (C) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 44 kD)



Immunohistochemical analysis of Kir6.2 (Phospho-T224) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Kir6.2 (Phospho-T224) staining in HuvEc cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with Alexa Fluor 647-conjugated secondary antibody (red) in PBS at room temperature in the dark.



Immunohistochemical analysis of Kir6.2 (pT224) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.