

For Research Use Only

# KCNJ18 Recombinant antibody

Catalog Number: 84203-5-RR



## Basic Information

|                           |            |                           |                     |                        |   |
|---------------------------|------------|---------------------------|---------------------|------------------------|---|
| Catalog Number:           | 84203-5-RR | GenBank Accession Number: | NM_001194958        | Purification Method:   | Protein A purification                                    |
| Size:                     | 1000 μg/ml | GenID (NCBI):             | 100134444           | CloneNo.:              | 241381A2  |
| Source:                   | Rabbit     | UNIPROT ID:               | B7U540              | Recommended Dilutions: | WB 1:5000-1:50000<br>IHC 1:1000-1:4000<br>IF-P 1:50-1:500 |
| Isotype:                  | IgG        | Full Name:                | similar to hkir2.2x |                        |   |
| Immunogen Catalog Number: | AG34177    | Calculated MW:            | 49 kDa              |                        |   |
|                           |            | Observed MW:              | 45 kDa              |                        |   |

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Species Specificity:

mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** mouse skin tissue, rat skin tissue, mouse skeletal muscle tissue, rat skeletal muscle tissue

**IHC:** mouse skin tissue,

**IF-P:** mouse skin tissue,

## Background Information

Mutations in KCNJ18 gene encoding an inwardly rectifying potassium channel (Kir2.6) cause thyrotoxic periodic paralysis (TPP) and sporadic, that is, non-familial cases of HypoPP. Mutant Kir2.6 proteins form a heterotetrameric Kir channel complex with Kir2.1 and thereby reduce cell surface expression of the complex. (PMID: 25882930)

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

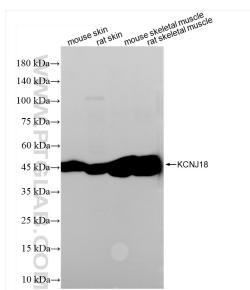
T: 4006900926

E: Proteintech-CN@ptglab.com

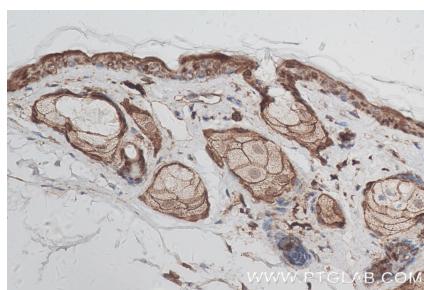
W: ptgcn.com

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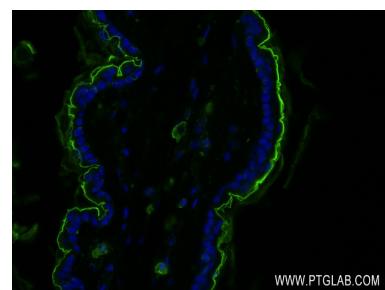
## Selected Validation Data



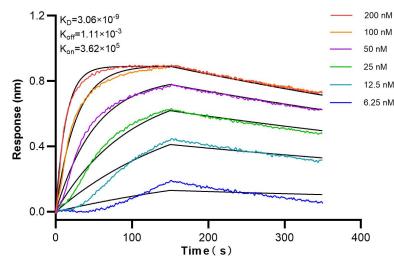
Various lysates were subjected to SDS PAGE followed by western blot with 84203-5-RR (KCNJ18 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 84203-5-RR (KCNJ18 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skin tissue using KCNJ18 antibody (84203-5-RR, Clone: 241381A2) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84203-5-RR against Human KCNJ18 were performed. The affinity constant is below 3.06 nM.