

A14010

Leader in Biomolecular Solutions for Life Science



## KCNJ4 Rabbit pAb

Catalog No.: A14010

### Basic Information

#### Observed MW

49kDa

#### Calculated MW

50kDa

#### Category

Polyclonal Antibody

#### Applications

WB, IHC-P, ELISA

#### Cross-Reactivity

Human, Mouse, Rat

### 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.

### Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:50 - 1:200

### Immunogen Information

#### Gene ID

3761

#### Swiss Prot

P48050

#### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 50-150 of human KCNJ4 (NP\_004972.1).

#### Synonyms

HIR; HRK1; IRK3; HIRK2; IRK-3; Kir2.3; KCNJ4

### Contact



[www.abclonal.com](http://www.abclonal.com)

### Product Information

#### Source

Rabbit

#### Isotype

IgG

#### Purification

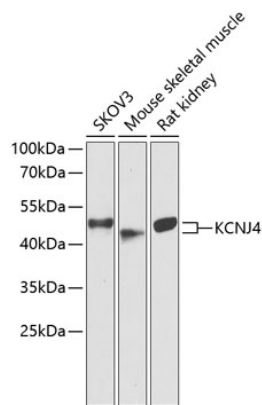
Affinity purification

#### Storage

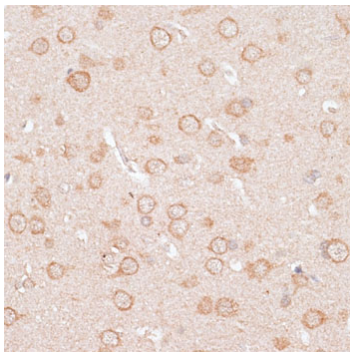
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

## Validation Data



Western blot analysis of extracts of various cell lines, using KCNJ4 antibody (A14010) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Enhanced Kit (RM00021).  
Exposure time: 30s.



Immunohistochemistry analysis of paraffin-embedded rat brain using KCNJ4 antibody (A14010) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.