

## Product datasheet for **TA392961S**

### **KIR2.3 (KCNJ4) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	WB
<b>Recommended Dilution:</b>	WB: 1:500~1:1000
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Synthetic peptide, corresponding to amino acids 250-300 of Human KIR2.3.
<b>Specificity:</b>	KIR2.3 (E285) polyclonal antibody detects endogenous levels of KIR2.3 protein.
<b>Formulation:</b>	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
<b>Concentration:</b>	1mg/ml
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
<b>Stability:</b>	1 year
<b>Predicted Protein Size:</b>	~ 50 kDa
<b>Gene Name:</b>	potassium voltage-gated channel subfamily J member 4
<b>Database Link:</b>	<a href="#">Entrez Gene 3761 Human P48050</a>

**Background:** The KIR2 subunit family includes 2.1, 2.2, 2.3 and 2.4. Unlike G-protein coupled KIR3 subunits, KIR2.1 requires both phosphorylation by PKA and ATP hydrolysis for functional activity. KIR2.1 is expressed in the superior and inferior collicula and the pontine region of the brain, where it moderates synaptic transmission, like many other potassium channels. In the placenta, KIR2.1 is expressed throughout gestation in cytotrophoblast cells. In the kidney, KIR2.1 colocalizes with KIR5.1 in the proximal tubule. KIR2.1, 2.2 and 2.3 associate with the membrane-associated guanylate kinase synapse-associated protein 97 in the cerebellum and heart. Phosphorylation of KIR2.2 by protein kinase A inhibits the associates with SAP97. Arachidonic acid increases current amplitude in KIR2.3 activity but does not affect the activity of KIR2.1, 2.2 or 2.4.

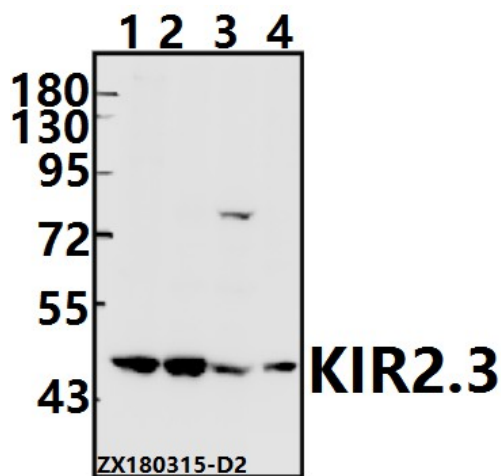


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**Synonyms:** Hippocampal inward rectifier; Hippocampal inward rectifier potassium channel; HIR; HIRK2; HRK1; inwardly rectifying subfamily J member 4; Inward rectifier K(+) channel Kir2.3; Inward rectifier K+ channel Kir2.3; Inward rectifier potassium channel 4; Inward rectifier potassium channel Kir 2.3; IRK-3; IRK3; IRK4; KCNJ 4; KCNJ4; Kir2.3

**Note:** For research use only, not for use in diagnostic procedure.

**Product images:**



Western blot (WB) analysis of KIR2.3 (E285) pAb at 1:1000 dilution Lane1:U-87MG whole cell lysate(40ug) Lane2:The Heart tissue lysate of Mouse(40ug) Lane3:The Heart tissue lysate of Rat(40ug) Lane4:HEK293T whole cell lysate(40ug)