

Rabbit KIR3.1 Polyclonal Antibody | anti-KCNJ3 antibody

KIR3.1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322550	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

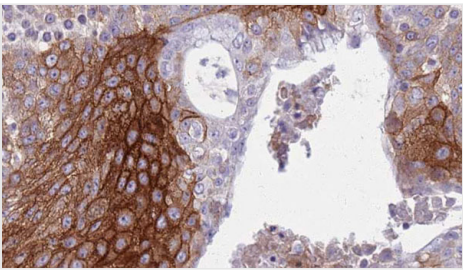
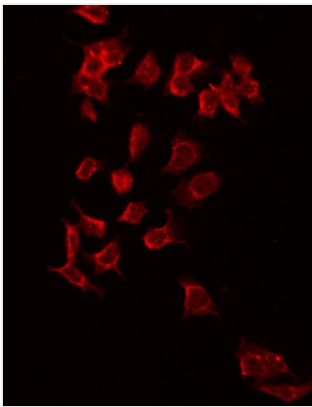
PRODUCT SYNONYMS

KIR3.1; Polyclonal Antibody; KIR3.1 Antibody; G protein activated inward rectifier potassium channel 1; G protein-activated inward rectifier potassium channel 1; GIRK-1; GIRK1; Inward rectifier K(+) channel Kir3.1; Inwardly rectifying potassium channel KIR3.1; inwardly rectifying subfamily J member 3; IRK3; IRK3_HUMAN; Kcnf3; Kcnj3; KGA; KGB1; Kir3.1; Potassium channel; Potassium inwardly-rectifying channel; subfamily J; member 3; anti-KCNJ3 antibody

PRODUCT SPECIFICATIONS

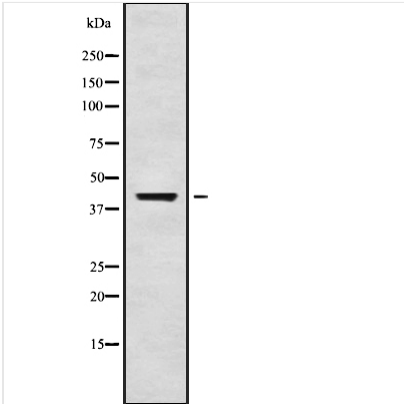
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	KIR3.1 antibody detects endogenous levels of total KIR3.1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	235
Applicable Applications for anti-KCNJ3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human KIR3.1
Subcellular Location	Membrane.
Predicted Cross Reactivity	Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA322550 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

IF (Immunofluorescence)
AAA322550 staining RAW264.7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of KIR3.1 using NIH-3T3 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-KCNJ3 antibody

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.

Subunit Structure: Associates with GIRK2, GIRK3 or GIRK4 to form a G-protein activated heteromultimer pore-forming unit. The resulting inward current is much larger (By similarity).

Similarity: Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ3 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	386781846
NCBI GeneID	3760
NCBI Accession #	NP_001247437.1
NCBI GenBank Nucleotide #	NM_001260508.1
UniProt Accession #	P48549; Q8TBI0; B4DEW7
Molecular Weight	Observed: 43 kDa Predicted: 57 kDa

NCBI Official Full Name	G protein-activated inward rectifier potassium channel 1 isoform 2
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily J member 3
NCBI Official Symbol	KCNJ3
NCBI Official Synonym Symbols	KGA; GIRK1; KIR3.1
NCBI Protein Information	G protein-activated inward rectifier potassium channel 1
UniProt Protein Name	G protein-activated inward rectifier potassium channel 1
UniProt Gene Name	KCNJ3
UniProt Synonym Gene Names	GIRK1; GIRK-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/kir31-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322550>