

Human ATP sensitive inward rectifier potassium channel 11 (KCNJ11) ELISA Kit | KCNJ11 elisa kit

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CATALOG # AAA245573	REACTIVITY Human
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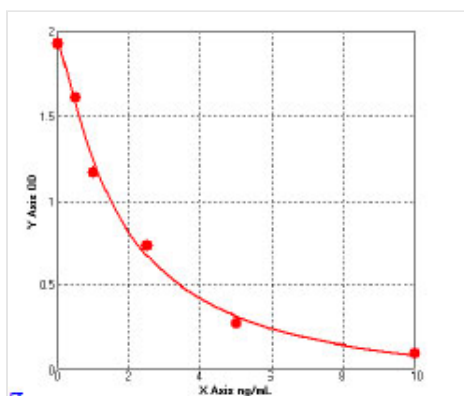
PRODUCT SYNONYMS

ATP sensitive inward rectifier potassium channel 11 (KCNJ11); Human ATP sensitive inward rectifier potassium channel 11 (KCNJ11) ELISA Kit; KCNJ11 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of KCNJ11. No significant cross-reactivity or interference between KCNJ11 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between KCNJ11 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for KCNJ11 elisa kit	Intended Uses: This KCNJ11 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human KCNJ11. This ELISA kit for research use only! Principle of the Assay: KCNJ11 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-KCNJ11 antibody and an KCNJ11-HRP conjugate. The assay sample and buffer are incubated together with KCNJ11-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the KCNJ11 concentration since KCNJ11 from samples and KCNJ11-HRP conjugate compete for the anti-KCNJ11 antibody binding site. Since the number of sites is limited, as more sites are occupied by KCNJ11 from the sample, fewer sites are left to bind KCNJ11-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The KCNJ11 concentration in each sample is interpolated from this standard curve.
Product Categories/Family for KCNJ11 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	62388888
NCBI GeneID	3767
NCBI Accession #	NP_000516.3
NCBI GenBank Nucleotide #	NM_000525.3
Molecular Weight	33,263 Da
NCBI Official Full Name	ATP-sensitive inward rectifier potassium channel 11 isoform 1
NCBI Official Synonym Full Names	potassium inwardly-rectifying channel, subfamily J, member 11
NCBI Official Symbol	KCNJ11
NCBI Official Synonym Symbols	BIR; HHF2; PHHI; IKATP; TNDM3; KIR6.2
NCBI Protein Information	ATP-sensitive inward rectifier potassium channel 11; beta-cell inward rectifier subunit; inward rectifier K(+) channel Kir6.2; inwardly rectifying potassium channel KIR6.2; potassium channel inwardly rectifying subfamily J member 11; potassium channel, inwardly rectifying subfamily J member 11
UniProt Protein Name	ATP-sensitive inward rectifier potassium channel 11
UniProt Gene Name	KCNJ11
UniProt Entry Name	KCJ11_HUMAN

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/human-elisa-kits/atp-sensitive-inward-rectifier-potassium-channel-11-kcnj11/245573>