

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human Kir2.1 in direct ELISAs. Detects human and mouse Kir2.1 in Immunohistochemistry.
Source	Monoclonal Rabbit IgG Clone # 2153C
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Kir2.1 Asn352-Ile427 Accession # P63252
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Human Inward Rectifier Potassium Channel 2 (KIR2.1), also known as KCNJ2, is a 427 amino acid (aa) integral membrane protein with 98% homology with mouse and rat KIR2.1. This potassium channel preferentially allows potassium to flow into the cell, which is thought to generate action potential waveform and excitability in neuronal and muscle tissues. Mutations in the KIR2.1 gene are associated with Andersen syndrome, with associated paralysis, cardiac arrhythmias and dysmorphic features. KIR2.1 is widely expressed, notably in heart, placenta, lung, skeletal muscle, kidney and spleen. Expression of KIR2.1 is necessary for development of mature cardiomyocytes from mouse embryonic stem cells.

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