bs-2436R **[Primary Antibody]**

Kir6.2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3767 **SWISS:** Q14654

Target: Kir6.2

Immunogen: KLH conjugated synthetic peptide derived from human Kir62: 301-390/390.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins and is found associated with the sulfonylurea receptor SUR. Mutations in this gene are a cause of familial persistent hyperinsulinemic hypoglycemia of infancy (PHHI), an autosomal recessive disorder characterized by unregulated insulin secretion. Defects in this gene may also contribute to autosomal dominant non-insulin-dependent diabetes mellitus type II (NIDDM), transient neonatal diabetes mellitus type 3 (TNDM3), and permanent neonatal diabetes mellitus (PNDM). Multiple alternatively spliced transcript variants that encode different protein isoforms have been described for this gene. [provided by RefSeq]

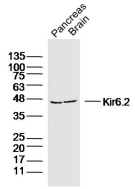
Applications: **WB** (1:500-2000)
Flow-Cyt (3ug/test)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Cow, Dog)

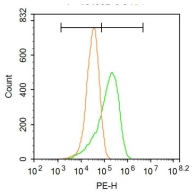
Predicted MW.: 43 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Pancreas (Mouse) Lysate at 40 ug Brain (Mouse) Lysate at 40 ug Primary: Anti-Kir6.2 (bs-2436R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 45 kD



Blank control: A549. Primary Antibody (green line): Rabbit Anti-Kir6.2 antibody (bs-2436) Dilution: 3µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=3.499]** Zhan C et al. Rotenone and 3-bromopyruvate toxicity impacts electrical and structural cardiac remodeling

in rats. Toxicol Lett. 2019 Oct 1. pii: S0378-4274(19)30295-4. WB,IHC ;Rat. 31585160

- **[IF=3.4]** Lin-ming Zhang. et al. Identification of key potassium channel genes of temporal lobe epilepsy by bioinformatics analyses and experimental verification. FRONT NEUROL. 2023; 14: 1175007 IHC ;Mouse. 37483435
- **[IF=2.127]** Zi C et al. Penehyclidine hydrochloride protects against anoxia/reoxygenation injury in cardiomyocytes through ATP-sensitive potassium channels, and the Akt/GSK-3β and Akt/mTOR signaling pathways. Cell Biol Int. 2020 Mar 3. WB ;rat. 32125033