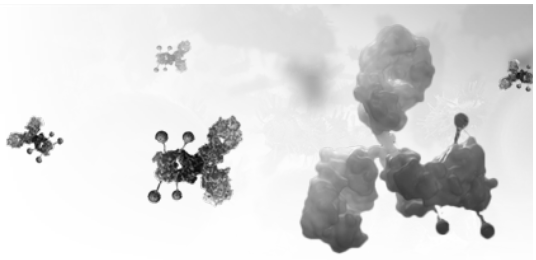

# Anti-KCNJ11 (aa 301-390) polyclonal antibody (DPAB-DC1775)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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|---|---|
| **Antigen Description** | 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. |
| **Immunogen** | KCNJ11 (NP_000516, 301 a.a. ~ 390 a.a) partial recombinant protein with GST tag. The sequence is RTSYLADEILWGQRFVPIVAEEDGRYSVDYSKFGNTVKVPTPLCTARQLDEDHSLLEALT LASARGPLRKRSVPMAKAKPKFSISPDSLS |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human |
| **Conjugate** | Unconjugated |
| **Applications** | WB (Cell lysate), WB (Recombinant protein), ELISA, |
| **Size** | 50 µl |
| **Buffer** | 50 % glycerol |
| **Preservative** | None |

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| | |
|---|---|
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

# GENE INFORMATION

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|---|---|
| **Gene Name** | KCNJ11 potassium inwardly-rectifying channel, subfamily J, member 11 [ Homo sapiens (human) ] |
| **Official Symbol** | KCNJ11 |
| **Synonyms** | KCNJ11; potassium inwardly-rectifying channel, subfamily J, member 11; BIR; HHF2; PHHI; IKATP; TNDM3; KIR6.2; 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 rectifing subfamily J member 11; potassium channel, inwardly rectifying subfamily J member 11; |
| **Entrez Gene ID** | 3767 |
| **Protein Refseq** | NP_000516 |
| **UniProt ID** | B2RC52 |
| **Chromosome Location** | 11p15.1 |
| **Pathway** | ATP sensitive Potassium channels; Insulin secretion; Inwardly rectifying K+ channels; Neuronal System. |
| **Function** | ATP binding; ATP-activated inward rectifier potassium channel activity; ankyrin binding; heat shock protein binding |

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