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# Anti-SUR1 Picoband Antibody

Catalog # ABO12898

## Product Information

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| **Application** | WB |
| **Primary Accession** | Q09428 |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Clonality** | Polyclonal |
| **Format** | Lyophilized |
| **Description** | Rabbit IgG polyclonal antibody for SUR1 detection. Tested with WB in Human;Mouse;Rat. |
| **Reconstitution** | Add 0.2ml of distilled water will yield a concentration of 500ug/ml. |

## Additional Information

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| **Gene ID** | 6833 |
| **Other Names** | ATP-binding cassette sub-family C member 8, Sulfonylurea receptor 1, ABCC8, HRINS, SUR, SUR1 |
| **Calculated MW** | 176992 |
| **Application Details** | Western blot, 0.1-0.5 □g/ml |
| **Subcellular Localization** | Cell membrane. |
| **Source** | Eukaryota |
| **Contents** | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg $Na_2HPO_4$, 0.05mg $NaN_3$. |
| **Immunogen** | A synthetic peptide corresponding to a sequence of human SUR1 (TIQREGTLKDFQRSECQLFEHWKTLMNRQDQELEKETVTERKA). |
| **Cross Reactivity** | No cross reactivity with other proteins. |
| **Storage** | At -20˚C; for one year. After r˚Constitution, at 4˚C; for one month. It˚Can also be aliquotted and stored frozen at -20˚C; for a longer time. Avoid repeated freezing and thawing. |

## Protein Information

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| **Name** | ABCC8 |
| **Synonyms** | HRINS, SUR, SUR1 |

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| **Function** | Regulator subunit of pancreatic ATP-sensitive potassium channel (KATP), playing a major role in the regulation of insulin release. In pancreatic cells, it forms KATP channels with KCNJ11; KCNJ11 forms the channel pore while ABCC8 is required for activation and regulation. |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein |

## Background

ATP-binding cassette transporter sub-family C member 8 is a protein that in humans is encoded by the ABCC8 gene. The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions as a modulator of ATP-sensitive potassium channels and insulin release. Mutations and deficiencies in this protein have been observed in patients with hyperinsulinemic hypoglycemia of infancy, an autosomal recessive disorder of unregulated and high insulin secretion. Mutations have also been associated with non-insulin-dependent diabetes mellitus type II, an autosomal dominant disease of defective insulin secretion. Alternatively spliced transcript variants have been found for this gene.

## Images

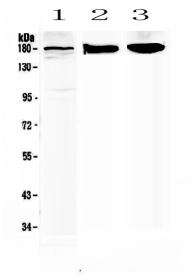


Figure 1. Western blot analysis of SUR1 using anti-SUR1 antibody (ABO12898).