

## Rabbit anti-Human SUR1 Polyclonal Antibody | anti-SUR1 antibody

Anti-Human SUR1 DyLight 488 conjugated Antibody

|                               |                       |                            |                                                         |
|-------------------------------|-----------------------|----------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA124911</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|-------------------------------|-----------------------|----------------------------|---------------------------------------------------------|

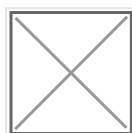
### PRODUCT SYNONYMS

SUR1; Polyclonal Antibody; Anti-Human SUR1 DyLight 488 conjugated Antibody; Rabbit IgG Polyclonal Anti-Human SUR1 Antibody DyLight 488 Conjugated; Flow Validated; ATP binding cassette subfamily C member 8; ATP-binding cassette sub-family C member 8; Sulfonylurea receptor 1; ABCC8; HRINS; SUR; anti-SUR1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                        |
| Reactivity                                     | Human                                                                                                         |
| Clonality                                      | Polyclonal                                                                                                    |
| Isotype                                        | IgG                                                                                                           |
| Specificity                                    | No cross reactivity with other proteins.                                                                      |
| Purity/Purification                            | Immunogen Affinity Purified                                                                                   |
| Form/Format                                    | Liquid                                                                                                        |
| Sequence Length                                | 1,582                                                                                                         |
| Applicable Applications for anti-SUR1 antibody | FCM/FACS (Flow Cytometry)                                                                                     |
| Immunogen                                      | A synthetic peptide corresponding to a sequence of human SUR1 (TIQREGTLKDFQ RSECQLFEHWKTLMNQRDQELEKETVTERKA). |
| Conjugate                                      | DyLight 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                               |
| Contents                                       | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub>    |
| Preparation and Storage                        | Store at 2-8°C. Protect from light. Do not freeze.                                                            |

### IMAGES



#### FCM/FACS (Flow Cytometry)

Figure 1. Flow Cytometry analysis of A431 cells using anti-Human SUR1 antibody.Overlay histogram showing A431 cells stained with A00895-DyLight488 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Human SUR1 Antibody for 30 min at 20 degree C. DyLight&reg; 488 conjugated goat anti-rabbit IgG (5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SUR1 antibody | 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. |
| References                                         | 1. "Entrez Gene: ABCC8 ATP-binding cassette, sub-family C (CFTR/MRP), member 8". 2. Glaser B, Chiu KC, Anker R, Nestorowicz A, Landau H, Ben-Bassat H, Shlomai Z, Kaiser N, Thornton PS, Stanley CA, et al. (Nov 1994). "Familial hyperinsulinism maps to chromosome 11p14-15.1, 30 cM centromeric to the insulin gene". Nat Genet. 7 (2): 185-8. 3. Thomas PM, Cote GJ, Wohllk N, Haddad B, Mathew PM, Rabl W, Aguilar-Bryan L, Gagel RF, Bryan J (May 1995). "Mutations in the sulfonylurea receptor gene in familial persistent hyperinsulinemic hypoglycemia of infancy". Science. 268 (5209): 426-9.                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                  |
|----------------------------------|------------------------------------------------------------------|
| NCBI GI #                        | 118582255                                                        |
| NCBI GeneID                      | 6833                                                             |
| NCBI Accession #                 | NP_000343.2                                                      |
| NCBI GenBank Nucleotide #        | NM_000352.4                                                      |
| UniProt Accession #              | Q09428; O75948; Q16583; A6NMX8; E3UYX6                           |
| NCBI Official Full Name          | ATP-binding cassette sub-family C member 8 isoform 2             |
| NCBI Official Synonym Full Names | ATP binding cassette subfamily C member 8                        |
| NCBI Official Symbol             | ABCC8                                                            |
| NCBI Official Synonym Symbols    | HI; SUR; HHF1; MRP8; PHHI; SUR1; ABC36; HRINS; TNDM2; SUR1delta2 |
| NCBI Protein Information         | ATP-binding cassette sub-family C member 8                       |
| UniProt Protein Name             | ATP-binding cassette sub-family C member 8                       |
| UniProt Gene Name                | ABCC8                                                            |
| UniProt Synonym Gene Names       | HRINS; SUR; SUR1                                                 |

**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.