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Datasheet for ABIN2869074

## anti-SLC2A2 antibody (C-Term) (PE)

### 3 Images

#### Overview

Quantity:	100 µg
Target:	SLC2A2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC2A2 antibody is conjugated to PE
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

#### Product Details

Immunogen:	Synthetic peptide from the C-terminal of human GLUT2
Specificity:	Predicted molecular weight at ~57.5 kDa. Observed molecular weight at 60-70 kDa and 38-45 kDa.
Cross-Reactivity:	Human, Rat
Purification:	Peptide Affinity Purified

#### Target Details

Target:	SLC2A2
Alternative Name:	GLUT2 ( <a href="#">SLC2A2 Products</a> )
Background:	Glucose transporter 2 (GLUT2) also known as solute carrier family 2 (facilitated glucose

## Target Details

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transporter), member 2 (SLC2A2) is a transmembrane carrier protein that enables protein facilitated glucose movement across cell membranes. It is the principal transporter for transfer of glucose between liver and blood, and has a role in renal glucose reabsorption (1). Mutations in SLC2A2 lead to Fanconi-Bickel syndrome (FBS), which results in hepatorenal glycogen accumulation, proximal renal tubular dysfunction, and impaired utilization of glucose and galactose. Recent studies have shown that mutations in SLC2A2 can cause neonatal diabetes, and therefore may contribute to human insulin secretion (2). Novel SLC2A2 mutations have also been discovered and are being investigated to determine their roles in FBS as well (3).

Gene ID: 6514

NCBI Accession: [NP\\_000331](#)

UniProt: [P11168](#)

Pathways: [Warburg Effect](#)

## Application Details

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Application Notes:

- WB (1:1000)
- ICC/IF (1:100)
- optimal dilutions for assays should be determined by the user.

Comment: A 1:1000 dilution of ABIN2869074 was sufficient for detection of GLUT2 on 293T Rapamycin-treated lysates using Goat anti-rabbit IgG:HRP as the secondary antibody.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 mg/mL

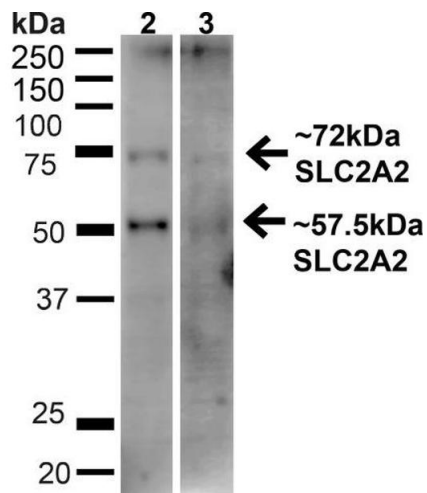
Buffer: PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

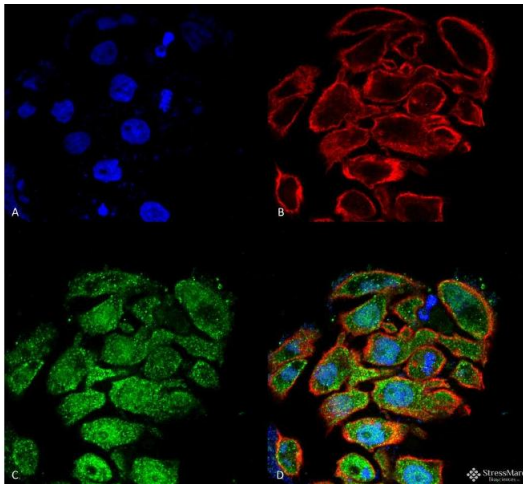
Storage: 4 °C

Storage Comment: Conjugated antibodies should be stored at 4°C



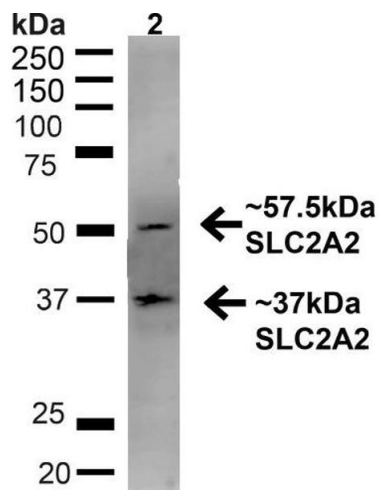
### Western Blotting

**Image 1.** Western blot analysis of Human HeLa and HEK293T cell lysates showing detection of ~57.5 kDa GLUT2 protein using Rabbit Anti-GLUT2 Polyclonal Antibody (ABIN2869074). Lane 1: MW Ladder. Lane 2: Human HeLa (20 µg). Lane 3: Human 293T (20 µg). Load: 20 µg. Block: 5 % milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-GLUT2 Polyclonal Antibody (ABIN2869074) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~57.5 kDa. Other Band(s): ~72 kDa.



### Immunofluorescence (fixed cells)

**Image 2.** Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-GLUT2 Polyclonal Antibody. Tissue: Colon cancer cell line (HT-29). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-GLUT2 Polyclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cytoplasm, membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GLUT2 Antibody (D) Composite.



### Western Blotting

**Image 3.** Western blot analysis of Rat Liver showing detection of ~57.5 kDa GLUT2 protein using Rabbit Anti-GLUT2 Polyclonal Antibody (ABIN2869074). Lane 1: MW Ladder. Lane 2: Rat Liver (20 µg). Load: 20 µg. Block: 5 % milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-GLUT2 Polyclonal Antibody (ABIN2869074) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~57.5 kDa. Other Band(s): ~37 kDa.