



Rabbit Anti-SLC37A4 antibody

SL4039R

Product Name:	SLC37A4
Chinese Name:	葡萄糖-6磷酸Transporter抗体
Alias:	G6PT2; GSD1b; GSD1c; GSD1d; TRG19; G6PT1; G6PT3; Glucose-5-phosphate transporter; Glucose-6-phosphatase, transport (glucose) protein 3 antibody; Glucose-6-phosphatase, transport (glucose-6-phosphate) protein 1; Glucose-6-phosphatase, transport (phosphate/pyrophosphate) protein 2; Glucose-6-phosphate translocase; Glucose-6-phosphate transporter 1; Microsomal glucose-6-phosphate transporter; Solute carrier family 37 (glucose-6-phosphate transporter), member 4; MGC15729; PRO0685; G6PT1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	46kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human G6PT2:25-130/429
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	SLC37A4 transports glucose-6-phosphate from the cytoplasm to the lumen of the

endoplasmic reticulum. It forms a complex with glucose-6-phosphatase which is responsible for glucose production through glycogenolysis and gluconeogenesis. Hence, it plays a central role in homeostatic regulation of blood glucose levels.

Function:

Transports glucose-6-phosphate from the cytoplasm to the lumen of the endoplasmic reticulum. Forms with glucose-6-phosphatase the complex responsible for glucose production through glycogenolysis and gluconeogenesis. Hence, it plays a central role in homeostatic regulation of blood glucose levels.

Subcellular Location:

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Specificity:

Mostly expressed in liver and kidney

DISEASE:

Defects in SLC37A4 are the cause of glycogen storage disease type 1B (GSD1B) [MIM:232220]. GSD1B is a metabolic disorder characterized by impairment of terminal steps of glycogenolysis and gluconeogenesis. GSD1 patients manifest a wide range of clinical symptoms and biochemical abnormalities, including hypoglycemia, severe hepatomegaly due to excessive accumulation of glycogen, kidney enlargement, growth retardation, lactic acidemia, hyperlipidemia, and hyperuricemia. GSD1B patients also present a tendency towards infections associated with neutropenia, relapsing aphthous gingivostomatitis, and inflammatory bowel disease.

Defects in SLC37A4 are the cause of glycogen storage disease type 1C (GSD1C) [MIM:232240].

Defects in SLC37A4 are the cause of glycogen storage disease type 1D (GSD1D) [MIM:232240].

Similarity:

Belongs to the major facilitator superfamily. Organophosphate:Pi antiporter (OPA) (TC 2.A.1.4) family.

SWISS:

O43826

Gene ID:

2542

Database links:

[Entrez Gene: 2542](#) Human

[Entrez Gene: 14385](#) Mouse

[Entrez Gene: 29573](#) Rat

[Oimim: 602671](#) Human

[SwissProt: O43826](#) Human

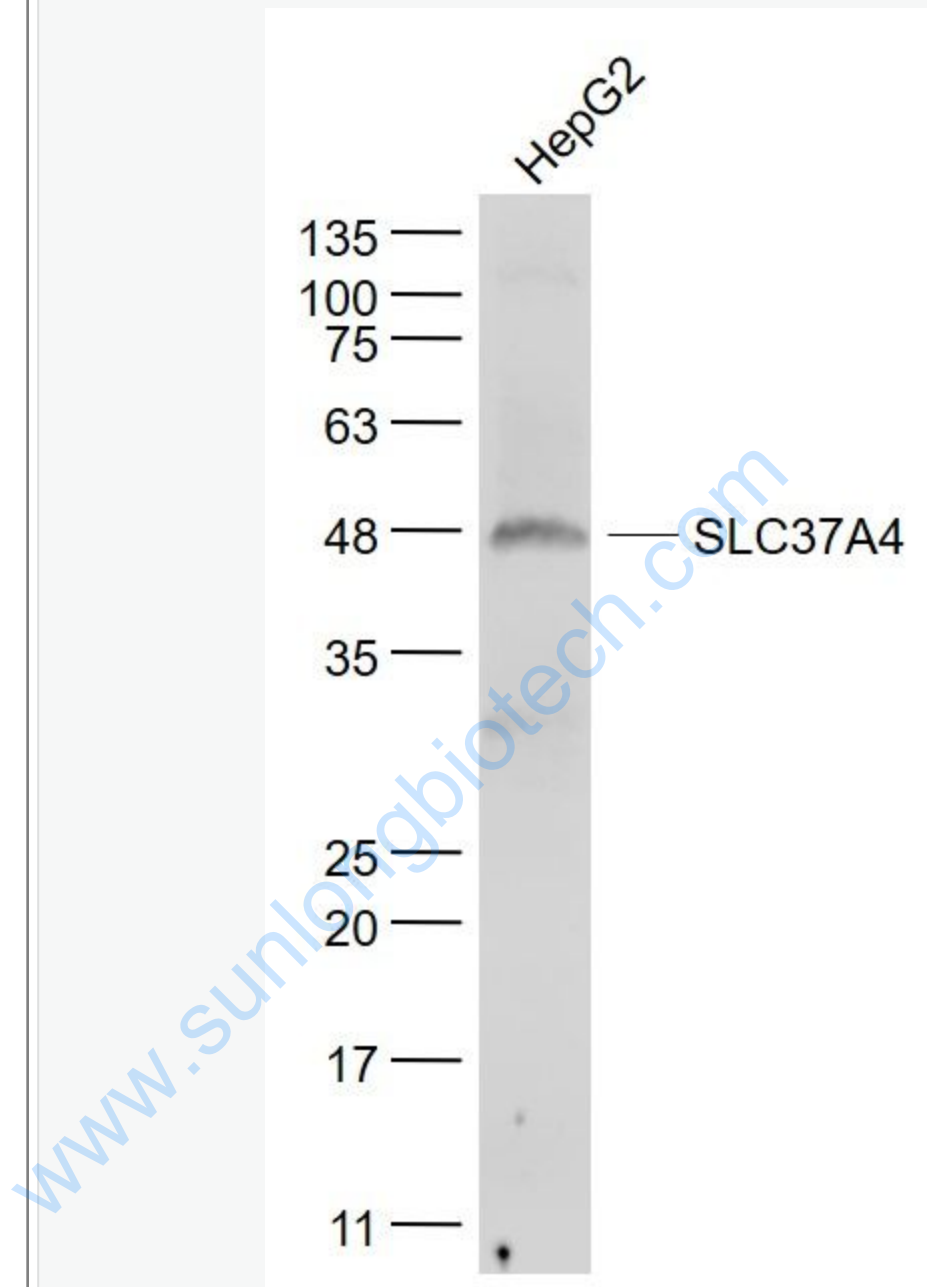
[Unigene: 719203](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Picture:



Sample:

HepG2 (Human) Cell Lysate at 30 ug

Primary: Anti- SLC37A4 (SL4039R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 46 kD

	Observed band size: 48 kD
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