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Datasheet for 600-401-EP6

Slc37A2 Antibody

Overview

Description:	Anti-SLC37A2 (RABBIT) Antibody - 600-401-EP6
Item No.:	600-401-EP6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The Slc37 gene family consists of four members which have 10-12 predicted transmembrane domains and belong to the sugar-phosphate transporter superfamily. Recent experiments have demonstrated that Slc37A2 is a macrophage-specific gene selectively expressed in obese white adipose tissue. Its transcript is also expressed in spleen and thymus and the cell lines RAW264.7 and THP-1. Compared to wild-type mice, Slc37A2 mRNA is expressed at nine-fold higher levels in abdominal epididymal fat deposits of ob/ob mice, suggesting that it may be required to limit the contribution of macrophages to the inflammatory state present in obesity. Slc37A2 protein is post-translationally modified with the addition of N-linked glycans and migrates as a heterogeneous species of 50-75kDa.
Synonyms:	Slc37A2 Antibody, pp11662, SPX2, Sugar phosphate exchanger 2, Solute carrier family 37 member 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SLC37A2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Slc37A2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the internal region of human Slc37A2.
Purity/Specificity:	Anti-Slc37A2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Slc37A2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8TED4 • GeneID - 219855 • NCBI - NP_938018

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Slc37A2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 54 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1 µg/mL

Formulation

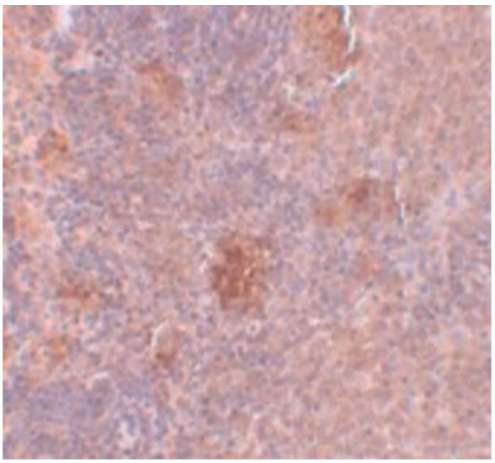
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

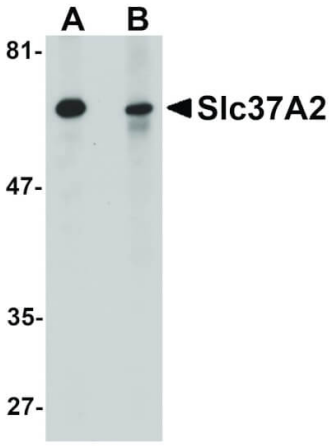
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

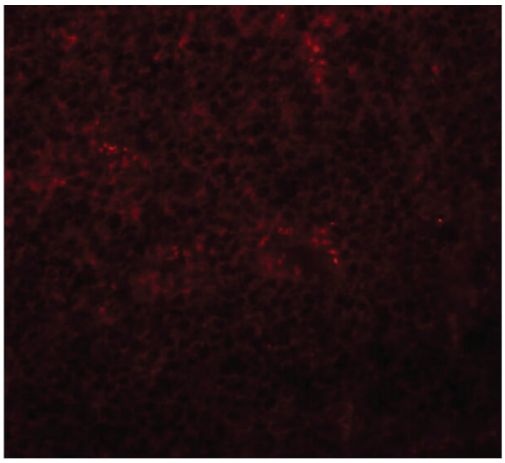
Images



Immunohistochemistry
Immunohistochemistry of Slc37A2 antibody. Tissue: Rat spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Slc37A2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Slc37A2 is a membrane protein. Staining: Slc37A2 as precipitated brown signal with blue nuclear counterstain.



Western Blot
Western Blot of Slc37A2 antibody. Lane 1: Mouse spleen tissue lysate in the absence of blocking peptide. Lane 2: Mouse spleen tissue lysate in the presence of blocking peptide. Primary Antibody: Anti-Slc37A2 antibody at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 54 kDa, 54 kDa for Slc37A2. Other band(s): Slc37A2 splice variants and isoforms.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Slc37A2 antibody. Tissue: Rat spleen tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Slc37A2 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Slc37A2 is a membrane protein. Staining: Slc37A2 as red fluorescent signal.

Disclaimer

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