

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

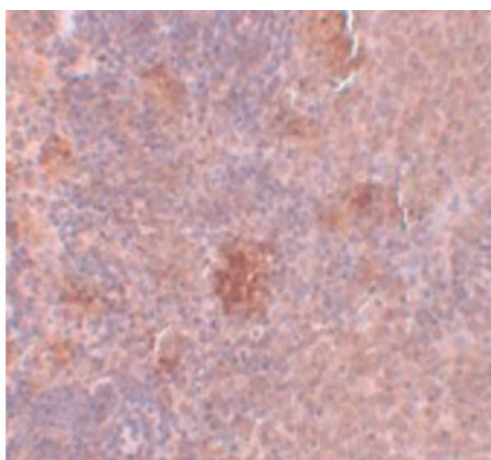
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

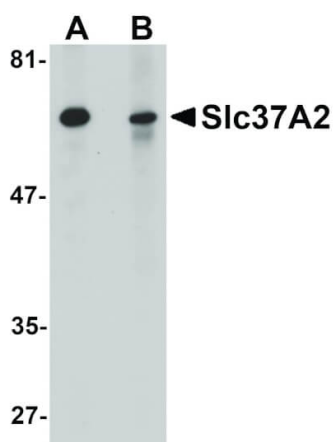
Expiration: Expiration date is one (1) year from date of receipt.

Images



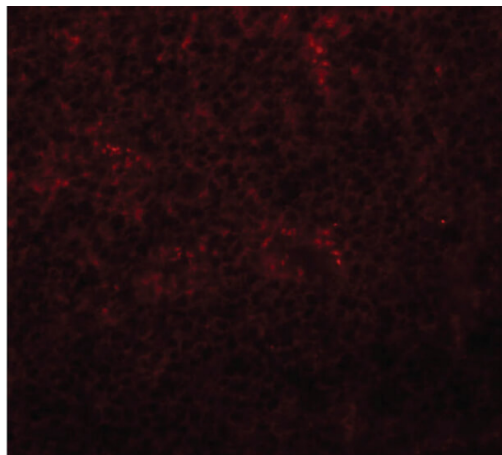
Immunohistochemistry

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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.