

Datasheet for 600-401-EN8**SLC1A7 Antibody****Overview**

Description:	Anti-SLC1A7 (RABBIT) Antibody - 600-401-EN8
Item No.:	600-401-EN8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The solute carrier family 1 member 7 (SLC1A7) protein was initially identified as a glutamate transporter coupled to a chloride conductance that is expressed primarily in the retina (1). More recent evidence indicates that it is widely expressed in peripheral tissues, also (2). Experiments have shown that SLC1A7 functions as a low-affinity/low-capacity glutamate transport, with an anion channel optimized for anion conductance in the negative voltage range (3). In the retina, SLC1A7 co-localizes with the serum and glucocorticoid dependent kinase SGK1, and its cell surface expression and activity is regulated SGK1 and its isoform SGK3 (4).
Synonyms:	Solute carrier family 1 (glutamate transporter) member 7, AAAT, excitatory amino acid transporter 5, EAAT5
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SLC1A7
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SLC1A7 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid peptide near the C-terminus of human SLC1A7.

Purity/Specificity:	Anti-SLC1A7 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. SLC1A7 antibody is human and mouse reactive. Multiple isoforms of SLC1A7 are known to exist.
Relevant Links:	• UniProtKB - O00341 • GeneID - 6512 • NCBI - NP_001274524

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-SLC1A7 Antibody has been tested for use in ELISA, immunohistochemistry, immunofluorescence, and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 61 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:	1:10,000-1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 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

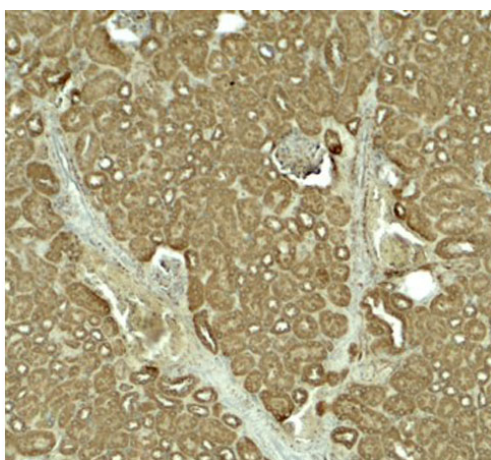
Shipping & Handling

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

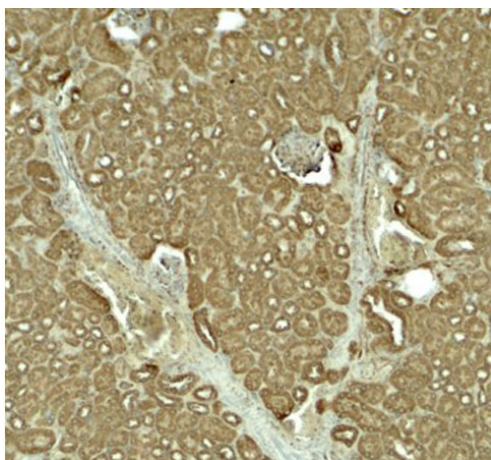


Immunohistochemistry

Immunohistochemistry of SLC1A7.

Tissue: mouse kidney tissue.

Primary Antibody: SLC1A7 antibody at 5 µg/ml.

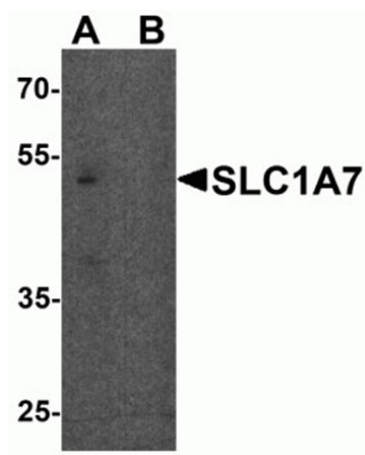


Immunohistochemistry

Immunohistochemistry of SLC1A7.

Tissue: mouse kidney tissue.

Primary Antibody: SLC1A7 antibody at 5 µg/ml.

**Western Blot**

Western blot of SLC1A7.

Load: C2C12 cell lysate.

Primary Antibody: SLC1A7 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.

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.