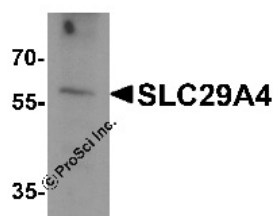


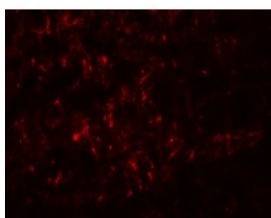


SLC29A4 Antibody

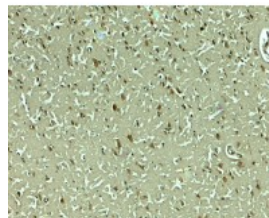
CATALOG NUMBER: 8131



Western blot analysis of SLC29A4 in SK-N-SH cell lysate with SLC29A4 antibody at 1 ug/ml.



Immunofluorescence of SLC29A4 in human brain tissue with SLC29A4 antibody at 20 ug/mL.



Immunohistochemistry of SLC29A4 in human brain tissue with SLC29A4 antibody at 5 ug/mL.

Specifications

SPECIES REACTIVITY:	Human
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Mouse: (94%)
TESTED APPLICATIONS:	ELISA, IF, IHC-P, WB
APPLICATIONS:	SLC29A4 antibody can be used for detection of SLC29A4 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1220 - SK-N-SH Cell Lysate
PREDICTED MOLECULAR WEIGHT:	Predicted: 58 kDa Observed: 58 kDa
SPECIFICITY:	SLC29A4 antibody is human specific. SLC29A4 antibody is predicted to not cross-react with other SLC29 proteins.
IMMUNOGEN:	SLC29A4 antibody was raised against an 18 amino acid peptide near the center of human SLC29A4. The immunogen is located within amino acids 310 - 360 of SLC29A4.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	SLC29A4 antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	SLC29A4 antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	SLC29A4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	Solute carrier family 29 member 4, Equilibrative nucleoside transporter 4, ENT4, PMAT
ACCESSION NO.:	NP_001035751
PROTEIN GI NO.:	100913034
OFFICIAL SYMBOL:	SLC29A4
GENE ID:	222962

Background

BACKGROUND:	SLC29A4 is a member of the equilibrative nucleoside transporter family which plays a key role in nucleoside and nucleobase uptake for salvage pathways of nucleotide synthesis (1,2). SLC29A4 is a transmembrane protein that catalyzes the reuptake of monoamines into presynaptic neurons, thus determining the intensity and duration of monoamine neural signaling (1,3). SLC29A4 has been shown to transport several compounds, including serotonin, dopamine, and the neurotoxin 1-methyl-4-phenylpyridinium (3).
REFERENCES:	1) Engel K, Zhou M, and Wang J. Identification and characterization of a novel monomine transporter in the human brain. J. Biol. Chem. 2004; 279:50042-9. 2) Young JD, Yao SY, Baldwin JM, et al. The human concentrative and equilibrative nucleoside transporter families, SLC28 and SLC29. Mol. Aspects. Med. 34:529-47. 3) Duan H and Wang J. Selective transport of monoamine neurotransmitters by human plasma membrane monoamine transporter and organic cation transporter 3. J. Pharmacol. Exp. Ther. 2010; 335:743-53.

FOR RESEARCH USE ONLY

December 14, 2016