Datasheet for ABIN754960

anti-SLC29A4 antibody (PE-Cy5)

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Overview

Quantity:	100 µL
Target:	SLC29A4
Reactivity:	Human, Rat, Mouse, Cow, Dog, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC29A4 antibody is conjugated to PE-Cy5
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human SLC29A4
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Dog,Cow,Pig,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	SLC29A4
Alternative Name:	SLC29A4 (SLC29A4 Products)
Background:	Synonyms: ENT4, PMAT, Equilibrative nucleoside transporter 4, hENT4, Plasma membrane monoamine transporter, Solute carrier family 29 member 4, SLC29A4, PSEC0113

Target Details

	Background: Functions as a polyspecific organic cation transporter, efficiently transporting many organic cations such as monoamine neurotransmitters 1-methyl-4-phenylpyridinium and biogenic amines including serotonin, dopamine, norepinephrine and epinephrine. May play a role in regulating central nervous system homeostasis of monoamine neurotransmitters. May be involved in luminal transport of organic cations in the kidney and seems to use luminal proton gradient to drive organic cation reabsorption. Does not seem to transport nucleoside and nucleoside analogs such as uridine, cytidine, thymidine, adenosine, inosine, guanosine, and azidothymidine. In (PubMed:16873718) adenosine is efficiently transported but in a fashion highly sensitive to extracellular pH , with maximal activity in the pH range 5.5 to 6.5. Glu-206 is essential for the cation selectivity and may function as the charge sensor for cationic substrates. Transport is chloride and sodium-independent but appears to be sensitive to changes in membrane potential. Weakly inhibited by the classical inhibitors of equilibrative nucleoside transport, dipyridamole, dilazep, and nitrobenzylthioinosine. May play a role in the regulation of extracellular adenosine concentrations in cardiac tissues, in particular during ischemia.
Molecular Weight:	58kDa
Gene ID:	222962
UniProt:	Q7RTT9

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Handling

Expiry Date:	12 months