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Datasheet for ABIN1394298 anti-SLC5A3 antibody (AA 251-350) (Alexa Fluor 647)



Overview

Quantity:	100 µL	
Target:	SLC5A3	
Binding Specificity:	AA 251-350	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This SLC5A3 antibody is conjugated to Alexa Fluor 647	
Application:	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))	

Product Details

Target Details		
Purification:	Purified by Protein A.	
Predicted Reactivity:	Mouse,Rat,Dog,Cow,Sheep,Pig,Chicken,Rabbit	
Cross-Reactivity:	Human	
Isotype:	lgG	
Immunogen:	KLH conjugated synthetic peptide derived from human SLC5A3/SMIT	

Target:	SLC5A3
Alternative Name:	SLC5A3/SMIT (SLC5A3 Products)

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Target Details	
Background:	Synonyms: Na+/myo inositol cotransporter, Na+/myo-inositol cotransporter, SC5A3_HUMAN,
	SLC5A3, SMIT, SMIT2, sodium/myo inositol cotransporter 1, Sodium/myo inositol
	cotransporter, Sodium/myo-inositol cotransporter, solute carrier family 5 inositol transporters,
	member 3, Solute carrier family 5 member 3.
	Background: Myo-inositol is involved in many important aspects of cellular regulation including
	membrane structure, signal transduction and osmoregulation. It is taken up into cells by the
	sodium/myo-inositol cotransporter (SMIT). SMIT activity maintains intracellular concentrations
	of myo-inositol, it is upregulated in response to hypertonic stress. The human SMIT protein is
	encoded by the SLC5A3 gene, which maps to chromosome 21q22.12. It is expressed in many
	human tissues, such as brain, kidney and placenta. Specifically, SMIT is abundantly expressed
	throughout the whole brain and spinal cord in fetal rat, but is downregulated in adult rat brain
	with the exception of the choroid plexus, where SMIT expression remains high. In kidney, SMIT
	localizes to the baso-lateral membranes of the thick ascending limb of Henle (TAL) and the
	inner medullary collecting duct (IMCD). Impaired SMIT activity is implicated in the pathogenesis
	of diabetes and Down syndrome.
Pathways:	Inositol Metabolic Process
Application Details	
Application Notes:	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
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:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be
	handled by trained staff only.
Storage:	-20 °C

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Storage Comment:

Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date:

12 months

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