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Datasheet for ABIN1394297 anti-SLC5A3 antibody (AA 251-350) (Alexa Fluor 555)



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 555	
Application:	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))	

Product Details

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

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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