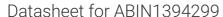
antibodies .- online.com







anti-SLC5A3 antibody (AA 251-350) (Biotin)



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Quantity:	100 μL	
Target:	SLC5A3	
Binding Specificity:	AA 251-350	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This SLC5A3 antibody is conjugated to Biotin	
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))	

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human SLC5A3/SMIT	
Isotype:	IgG	
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)

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:

IHC-P 1:200-400

IHC-F 1:100-500

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
Storage Comment:	Store at -20°C for 12 months.

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Expiry Date:

12 months