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Datasheet for 200-301-G50

Sodium-Iodide Symporter Antibody

Overview

Description:	Anti-Sodium-Iodide Symporter (MOUSE) Monoclonal Antibody - 200-301-G50
Item No.:	200-301-G50
Size:	100 µg
Applications:	IHC
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	The sodium iodide symporter (NIS) is an ion pump that actively transports iodide across the basolateral membrane into thyroid epithelial cells. This is important step in the process of iodide organificaton and the formation of triiodothyronine and thyroxine.
Synonyms:	NIS, SLC5A5, solute carrier family 5, Na (+)I(-) cotransporter, Sodium/iodide cotransporter,
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	FP5
Format:	IgG1

Target Details

Gene Name:	SLC5A5
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Other
Immunogen:	Sodium-Iodide Symporter Antibody was produced in mice by repeated immunizations raised against mannose binding protein hNIS fusion.

Purity/Specificity:	Anti-Sodium-Iodide Symporter Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Sodium-Iodide Symporter from Human, Mouse, and Rat based on 100% homology with the immunizing sequence. Recognizes both rod and cone alpha subunits. Cross-reactivity with Sodium-Iodide Symporter from other sources has not been determined. Ion Channels research.
Relevant Links:	• NCBI - NP_000444.1 • GeneID - 6528 • UniProtKB - Q92911

Application Details

Tested Applications:	IHC
Application Note:	Anti-Sodium-Iodide Symporter Antibody is suitable for use in WB, IHC-P, and IF microscopy. Expect a band approximately 97kD, non-glycosylated version at 68kD. Other minor bands associated with hNIS at 160 kDa, and degradation products at ~30 kDa, and ~15kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	User Optimized
IHC:	User Optimized
WB:	1:1000

Formulation

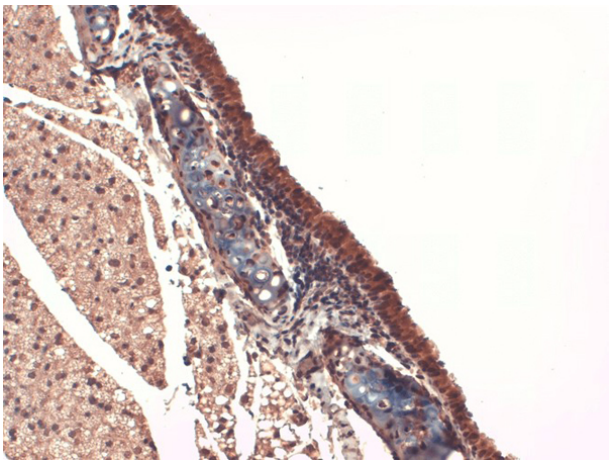
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

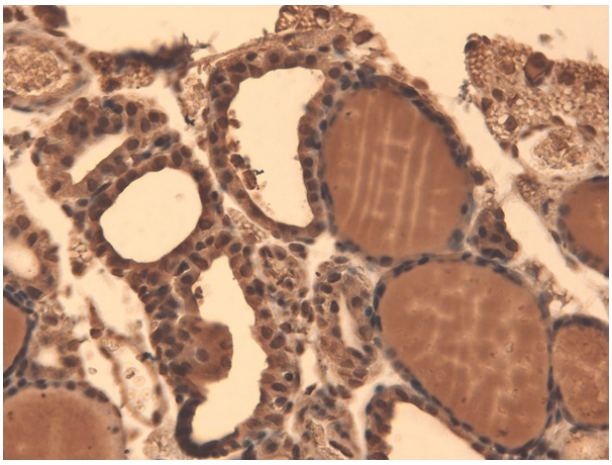
Shipping Condition:	Wet Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

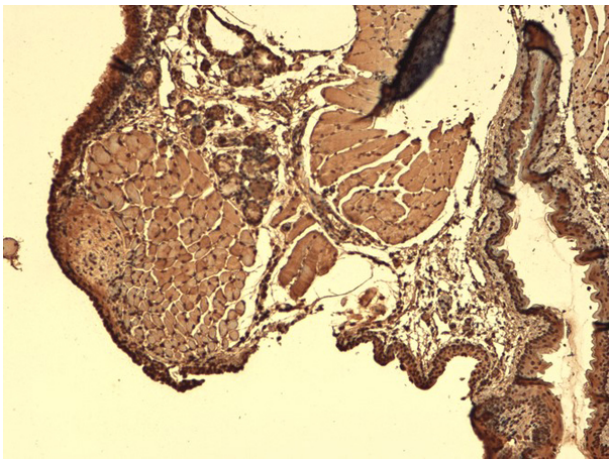
Images



Immunohistochemistry
Immunohistochemistry Results of Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody. Tissue: Mouse Trachea. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for 5 minutes at RT.



Immunohistochemistry
Immunohistochemistry Results of Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody. Tissue: Mouse Thyroid. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for 5 minutes at RT.



Immunohistochemistry
Immunohistochemistry Results of Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody. Tissue: Mouse Thyroid. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for 5 minutes at RT.

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