Mouse Sodium-Iodide Symporter Monoclonal Antibody | anti-SLC5A5 antibody

Sodium-Iodide Symporter Antibody: RPE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103175	**Mouse**	**Human, Mouse, Rat**	**ELISA, Immunofluorescence, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

Sodium-Iodide Symporter; Monoclonal Antibody; Sodium-Iodide Symporter Antibody: RPE; NIS; SLC5A5; solute carrier family 5; Na (+)I(-) cotransporter; anti-SLC5A5 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	FP5
Form/Format	Protein G Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	643
Applicable Applications for anti-SLC5A5 antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Conjugate	RPE
Storage Buffer	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Preparation and Storage	-20 degree C

IMAGES

IHC (Immunohistochemistry)
Immunohistochemistry analysis using Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody, Clone 14F. Tissue: Thyroid. Species: Mouse. 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 ul for 5 minutes at RT.

IHC (Immunohistochemistry)
Immunohistochemistry analysis using Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody, Clone 14F. Tissue: Thyroid. Species: Mouse. 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 ul for 5 minutes at RT.

IHC (Immunohistochemisry)
Immunohistochemistry analysis using Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody, Clone 14F. Tissue: Trachea. Species: Mouse. 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 ul for 5 minutes at RT.

WB (Western Blot)
Western Blot analysis of Human thyroid lysate showing detection of Sodium Iodide Symporter protein using Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody, Clone 14F. Primary Antibody: Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody at 1:1000.

IHC (Immunohistochemistry)
Immunohistochemistry analysis using Mouse Anti-Sodium Iodide Symporter Monoclonal Antibody, Clone 14F. Tissue: Thyroid. Species: Mouse. 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 ul for 5 minutes at RT.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC5A5 antibody	**Background Info:** Mapped to AA 625-643 of hNIS. Apparent mol. wt of 97kD,non-glycosylated version at 68kD. Other minor bands associated with hNIS at160kDa, and degradation products at ~30 kDa, and ~15kDa. **Scientific Background:** The sodium iodide symporter (NIS) is an ion pump that actively transports iodide across the basolateral membrane into thyroid epithelial cells (1, 2). This is important step in the process of iodide organificaton and the formation of triiodothyronine and thyroxine (3).
Product Categories/Family for anti-SLC5A5 antibody	Transporters
References	1. Dai G., Levy O., Carrasco N. (1996) Nature. 379(6564): 458-460. 2. Snabik P.A., et al. (1997) Endocrin. 138(8): 3555-3558. 3. Dohan O., et al. (2007) Proc Natl Acad Sci USA. 104(51): 20250-20255.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507035
NCBI GeneID	6528
NCBI Accession #	NP_000444.1
NCBI GenBank Nucleotide #	NM_000453.2
UniProt Accession #	Q92911; O43702; Q2M335; Q9NYB6
Molecular Weight	68,666 Da
NCBI Official Full Name	sodium/iodide cotransporter
NCBI Official Synonym Full Names	solute carrier family 5 (sodium/iodide cotransporter), member 5
NCBI Official Symbol	SLC5A5
NCBI Official Synonym Symbols	NIS; TDH1
NCBI Protein Information	sodium/iodide cotransporter; Na(+)/I(-) symporter; Na(+)/I(-) cotransporter; solute carrier family 5 (sodium iodide symporter), member 5

UniProt Protein Name	Sodium/iodide cotransporter
UniProt Gene Name	**SLC5A5**
UniProt Synonym Gene Names	NIS; Na(+)/I(-) cotransporter; Na(+)/I(-) symporter
UniProt Entry Name	SC5A5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/sodium-iodide-symporter-antibody-clone-fp5-immunofluorescence-immunohistochemistry-western-blot-elisa/103175