ARG22286
anti-Sodium Iodide Symporter antibody [FP5]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [FP5] recognizes Sodium Iodide Symporter
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC, WB
Specificity	Detects ~97kDa, non-glycosylated version at 68kDa. Other minor bands associated with hNIS at 160kDa, and degradation products at ~30 kDa, and ~15kDa.
Host	Mouse
Clonality	Monoclonal
Clone	FP5
Isotype	IgG1, kappa
Target Name	Sodium Iodide Symporter
Species	Human
Immunogen	Mannose binding protein-Human Sodium Iodide Symporter fusion protein (aa. 468-643)
Conjugation	Un-conjugated
Alternate Names	Sodium-iodide symporter; Na; -; TDH1; NIS; Solute carrier family 5 member 5; Sodium/iodide cotransporter

Application Instructions

Application table

Application	Dilution
ICC/IF	Assay-dependent
IHC	1:1000
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

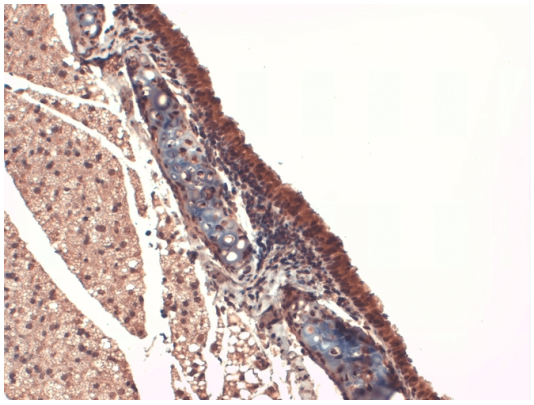
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.09% Sodium azide and 50% Glycerol
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

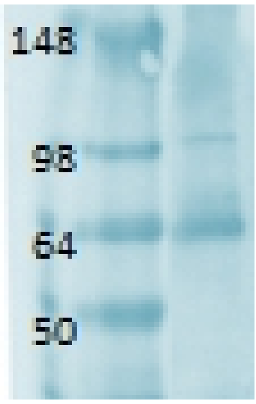
Database links	GeneID: 114613 Rat GeneID: 6528 Human Swiss-port # Q63008 Rat Swiss-port # Q92911 Human
Gene Symbol	SLC5A5
Gene Full Name	solute carrier family 5 (sodium/iodide cotransporter), member 5
Background	This gene encodes a member of the sodium glucose cotransporter family. The encoded protein is responsible for the uptake of iodine in tissues such as the thyroid and lactating breast tissue. The iodine taken up by the thyroid is incorporated into the metabolic regulators triiodothyronine (T3) and tetraiodothyronine (T4). Mutations in this gene are associated with thyroid dyshormonogenesis 1.[provided by RefSeq, Sep 2009]
Function	Mediates iodide uptake in the thyroid gland. [UniProt]
Calculated Mw	~97 kDa; 68 kDa (unmodified); 160 kDa (minor bands associated with hNIS); ~15 and 30 kDa (degradation products).
Cellular Localization	Membrane

Images



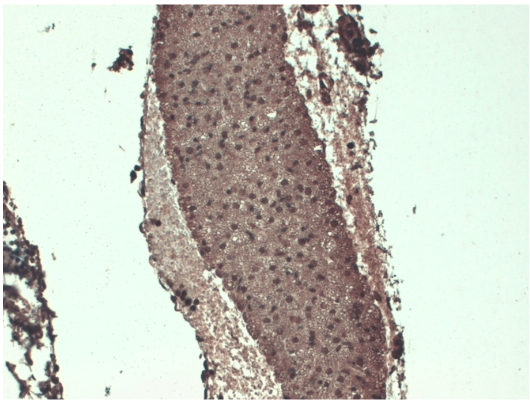
ARG22286 anti-Sodium Iodide Symporter antibody [FP5] IHC image

Immunohistochemistry: 10% Formalin (12-24 hours at RT) fixed Mouse Trachea stained with ARG22286 anti-Sodium Iodide Symporter antibody [FP5] (brown) at 1:1000 dilution (1 hour). Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500uL for 5 minutes at RT.



ARG22286 anti-Sodium Iodide Symporter antibody [FP5] WB image

Western blot: Human thyroid lysate stained with ARG22286 anti-Sodium Iodide Symporter antibody [FP5] at 1:1000 dilution.



ARG22286 anti-Sodium Iodide Symporter antibody [FP5] IHC image

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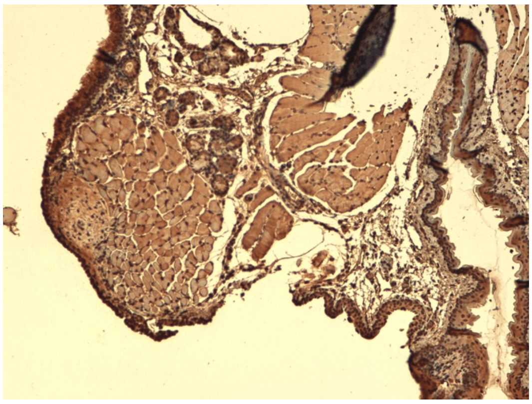

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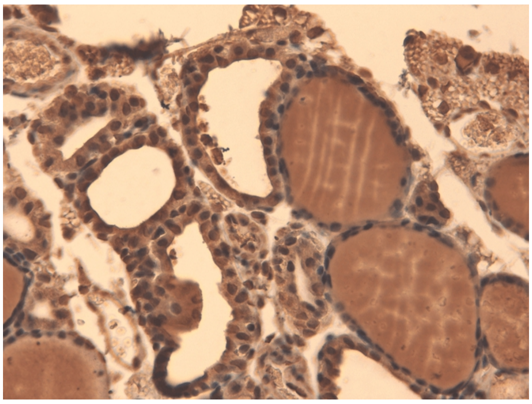

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