

Product Datasheet

SLC5A5/Sodium Iodide Symporter Antibody (FP5) - BSA Free NBP1-70342

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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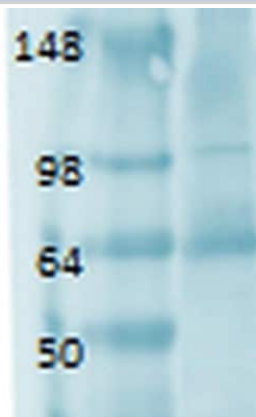


NBP1-70342**SLC5A5/Sodium Iodide Symporter Antibody (FP5) - BSA Free**

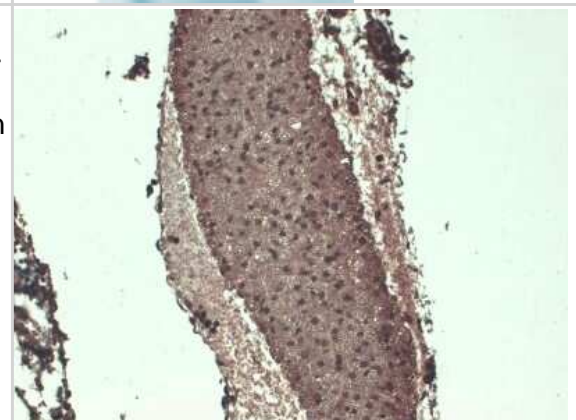
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	FP5
Preservative	0.09% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol
Product Description	
Description	Novus Biologicals Mouse SLC5A5/Sodium Iodide Symporter Antibody (FP5) - BSA Free (NBP1-70342) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-SLC5A5/Sodium Iodide Symporter Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	6528
Gene Symbol	SLC5A5
Species	Human, Mouse, Rat
Specificity/Sensitivity	Detects approx 97kDa, non-glycosylated version at 68kDa. Other minor bands associated with hNIS at 160kDa, and degradation products at approx 30 kDa, and approx 15kDa.
Immunogen	Mannose binding protein hNIS fusion (AA468-643)
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Microarray
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Microarray
Application Notes	1 ug/ml of Sodium-Iodide Symporter Antibody was sufficient for detection of hNIS in 20 ug of transfected COS-7 cell membrane lysate by ECL immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary Antibody.

Images

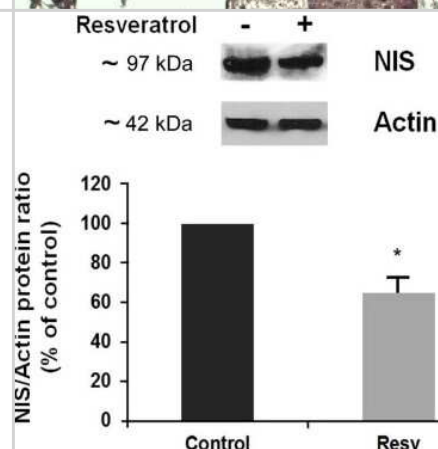
Western Blot: SLC5A5/Sodium Iodide Symporter Antibody (FP5) [NBP1-70342] - Western Blot analysis of Human thyroid lysate showing detection of SLC5A5/Sodium Iodide Symporter protein using Mouse Anti-SLC5A5/Sodium Iodide Symporter Monoclonal Antibody, Clone 14F (NBP1-70342). Primary Antibody: Mouse Anti-SLC5A5/Sodium Iodide Symporter Monoclonal Antibody (NBP1-70342) at 1:1000.



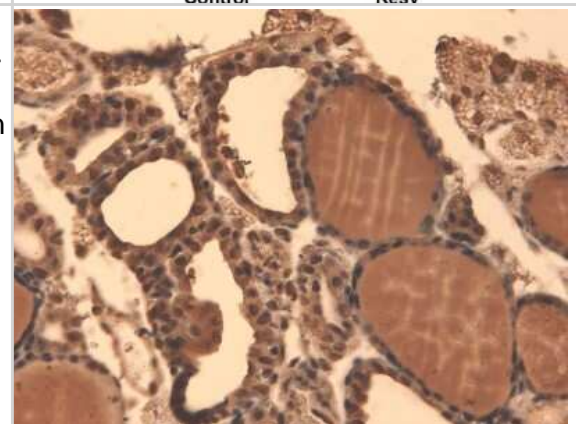
Immunohistochemistry: SLC5A5/Sodium Iodide Symporter Antibody (FP5) [NBP1-70342] - Immunohistochemistry analysis using Mouse Anti-SLC5A5/Sodium Iodide Symporter Monoclonal Antibody, Clone 14F (NBP1-70342). Tissue: Thyroid. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-SLC5A5/Sodium Iodide Symporter Monoclonal Antibody (NBP1-70342) 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 I for 5 minutes at RT.



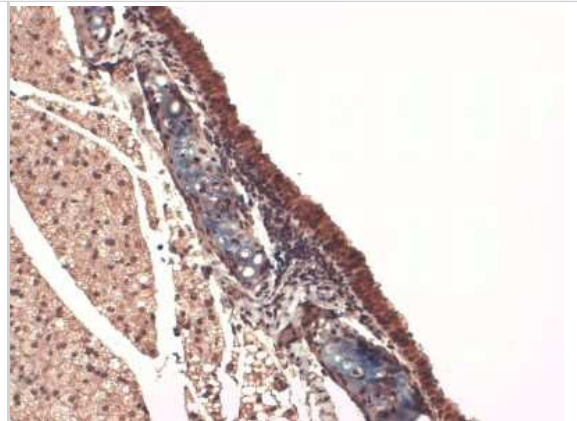
Western Blot: SLC5A5/Sodium Iodide Symporter Antibody (FP5) [NBP1-70342] - Effects of 10 μ M resveratrol on NIS protein expression. FRTL-5 cells were grown to 60% confluency in 6H5% medium, and then shifted to 5H5% medium for 6 days, before being cultured again in 6H5% medium for 24 h, and finally treated with resveratrol for 48 h. A representative Western blot is shown (top), with quantification (bottom). Data are the normalized means \pm SD (against actin) from three independent experiments (control vehicle: 100%). Control, cells treated with the control vehicle (0.5% ethanol); Resv, cells treated with 10 μ M resveratrol. *, $p < 0.05$ versus relevant control. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0107936>), licensed under a CC-BY license.



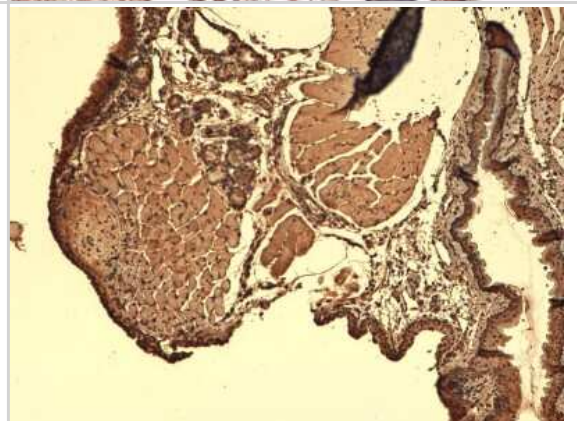
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Immunohistochemistry: SLC5A5/Sodium Iodide Symporter Antibody (FP5) [NBP1-70342] - Immunohistochemistry analysis using Mouse Anti-SLC5A5/Sodium Iodide Symporter Monoclonal Antibody, Clone 14F (NBP1-70342). Tissue: Trachea. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-SLC5A5/Sodium Iodide Symporter Monoclonal Antibody (NBP1-70342) 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 I for 5 minutes at RT.



Immunohistochemistry: SLC5A5/Sodium Iodide Symporter Antibody (FP5) [NBP1-70342] - Immunohistochemistry analysis using Mouse Anti-SLC5A5/Sodium Iodide Symporter Monoclonal Antibody, Clone 14F (NBP1-70342). Tissue: Thyroid. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-SLC5A5/Sodium Iodide Symporter Monoclonal Antibody (NBP1-70342) 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 I for 5 minutes at RT.



Publications

Oh JM, Gangadaran P, Rajendran RL et al. Different Expression of Thyroid-Specific Proteins in Thyroid Cancer Cells between 2-Dimensional (2D) and 3-Dimensional (3D) Culture Environment Cells 2022-11-10 [PMID: 36428988] (Rat)

Oh JM, Rajendran RL, Gangadaran P Et al. Targeting GLI1 Transcription Factor for Restoring Iodine Avidity with Redifferentiation in Radioactive-Iodine Refractory Thyroid Cancers Cancers (Basel) 2022-04-12 [PMID: 35406554] (ICC/IF, WB, Mouse, Human)

Details:

Citation using the Alexa Fluor 488 version of this antibody.

Schnoell J, Kotowski U, Jank BJ et al. Prognostic Relevance of Thyroid-Hormone-Associated Proteins in Adenoid Cystic Carcinoma of the Head and Neck Journal of personalized medicine 2021-12-12 [PMID: 34945824] (IHC-P, Human)

Miranda RA, de Moura EG, Soares PN et al. Thyroid redox imbalance in adult Wistar rats that were exposed to nicotine during breastfeeding Scientific reports 2020-09-24 [PMID: 32973319] (WB, Rat)

Giuliani Cesidio, Bucci Ines, Di Santo Serena et al. The flavonoid quercetin inhibits thyroid-restricted genes expression and thyroid function. Food Chem Toxicol. 2014-01-18 [PMID: 24447974] (Rat)

Giuliani C, Bucci I, Di Santo S et al. Resveratrol inhibits sodium/iodide symporter gene expression and function in rat thyroid cells. PLoS ONE. 2014-09-25 [PMID: 25251397]



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Products Related to NBP1-70342

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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