

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**

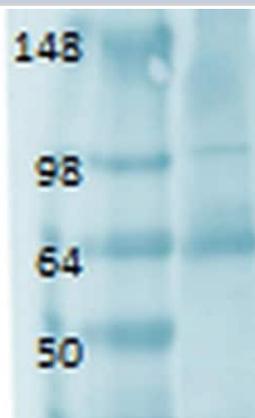
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	FP5
Preservative	0.09% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol

Product Description	
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)

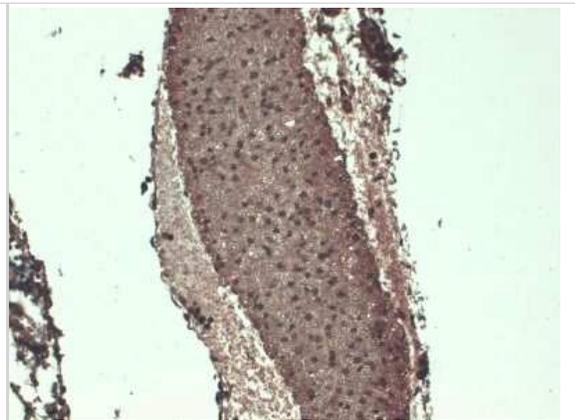
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Microarray
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, 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

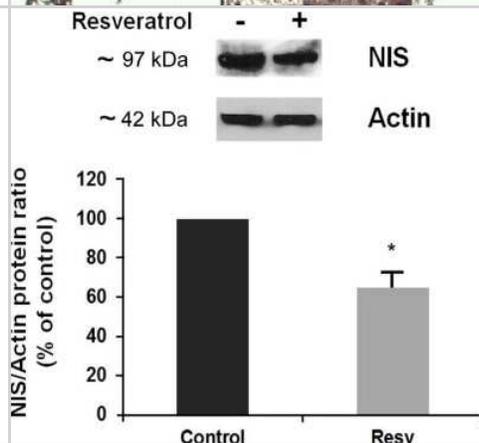
Western Blot: SLC5A5/Sodium Iodide Symporter Antibody (FP5) [NBP1-70342] - Western Blot analysis of Human thyroid lysate showing detection of SLC5A5/Sodium Iodide Symporter protein using Mouse Anti-SLC5A5/Sodium Iodide Symporter Monoclonal Antibody, Clone 14F (NBP1-70342). Primary Antibody: Mouse Anti-SLC5A5/Sodium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



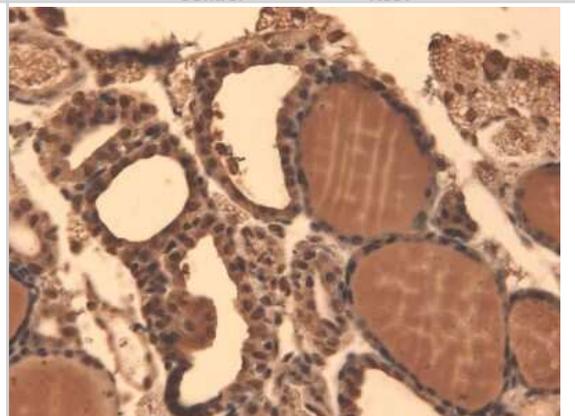
Immunohistochemistry: SLC5A5/Sodium Iodide Symporter Antibody (FP5) [NBP1-70342] - Immunohistochemistry analysis using Mouse Anti-SLC5A5/Sodium Iodide Symporter Monoclonal Antibody, Clone 14F (NBP1-70342). Tissue: Thyroid. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary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



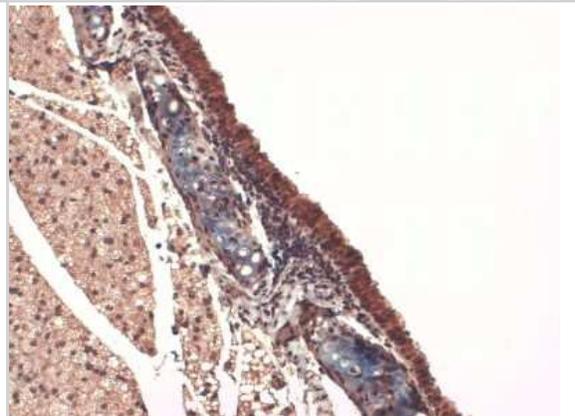
Western Blot: SLC5A5/Sodium Iodide Symporter Antibody (FP5) [NBP1-70342] - Effects of 10 uM resveratrol on NIS protein expression. FRTL-5 cells were grown to 60% confluency in 6H5% medium, and then shifted to 5H5% medium for 6 days, before being cultured again in 6H5% medium for 24 h, and finally treated with resveratrol for 48 h. A representative Western blot is shown (top), with quantification (bottom). Data are the normalized means +/-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 uM 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.



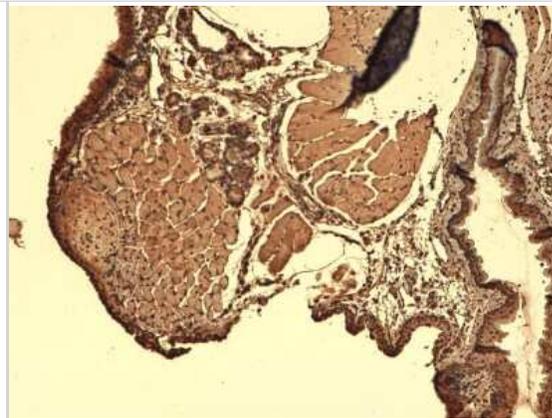
Immunohistochemistry: SLC5A5/Sodium Iodide Symporter Antibody (FP5) [NBP1-70342] - Immunohistochemistry analysis using Mouse Anti-SLC5A5/Sodium Iodide Symporter Monoclonal Antibody, Clone 14F (NBP1-70342). Tissue: Thyroid. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary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



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] (Immunohistochemistry)

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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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-70342AF488	SLC5A5/Sodium Iodide Symporter Antibody (FP5) [Alexa Fluor® 488]

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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