SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-NIS antibody

Catalog Number: SL22233R

FOR RESEARCH USE ONLY

[DATASHEET]

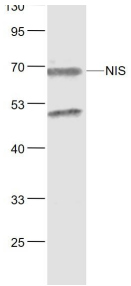
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NIS
Immunogen:	KLH conjugated synthetic peptide derived from mouse NIS: 580-643/643 <Cytoplasmic>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
Predicted MW.:	68kDa
Subcellular Location:	cytoplasmic
Background:	catalyzes Na+/I- symporter activity plays a role in iodide transport and thyroid hormone generation. Human Sodium Iodide Symporter (hNIS) is responsible for iodide concentrating ability within thyroid follicular cells. It is a membrane bound glycoprotein with 13 membrane spanning domains and 14 extramembranous domains. It may represent an autoantigen in thyroid. **Function:** Mediates iodide uptake in the thyroid gland. **Subcellular Location:** Membrane; Multi-pass membrane protein. **Tissue Specificity:** Expression is primarily in thyroid tissue, but also to a lower extent in mammary gland and ovary. Expression is reduced in tumors. DISEASE: Thyroid dyshormonogenesis 1 (TDH1) [MIM:274400]: A disorder characterized by the inability of the thyroid to maintain a concentration difference of readily exchangeable iodine between the plasma and the thyroid gland, leading to congenital hypothyroidism. Note=The disease is caused by

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	mutations affecting the gene represented in this entry. **Similarity:** Belongs to the sodium:solute symporter (SSF) (TC 2.A.21) family. **Database links:** **Entrez Gene:** 6528 Human **Entrez Gene:** 114613 Rat Omim: 601843 Human **SwissProt:** Q92911 Human **SwissProt:** Q63008 Rat **Unigene:** 103983 Human **Unigene:** 584804 Human **Unigene:** 10505 Rat Sodium/iodide symporter protein-NIS is a membrane antigen located on the basolateral membrane of thyroid cells and plays an important role in the active transport of iodine by the thyroid. The sodium/iodide Transporter is extensively regulated by multiple factors such as thyroid-stimulating hormone (TSH), iodine, cell factor, and growth factors. In autoimmune thyroid diseases, the expression of NIS changes significantly, and anti-NIS autoantibodies appear in patients. In addition, NIS is also closely related to the pathogenesis of thyroid diseases such as thyroid cold nodules and congenital hypothyroidism, and has received sufficient attention in recent years.

[VALIDATION IMAGES]



Sample:
U937(Human) Cell Lysate at 30 ug
Primary: Anti- NIS (SL22233R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 68 kD
Observed band size: 68 kD

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