

For Research Use Only

Sodium iodide symporter Polyclonal antibody

Catalog Number: 24324-1-AP

50 Publications



Basic Information

Catalog Number:

24324-1-AP

Size:

150ul, Concentration: 250 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG19504

GenBank Accession Number:

BC105047

GeneID (NCBI):

6528

UNIPROT ID:

Q92911

Full Name:

solute carrier family 5 (sodium iodide symporter), member 5

Calculated MW:

643 aa, 69 kDa

Observed MW:

50-55 kDa, 75-100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:1000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:20-1:200

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse testis tissue, mouse stomach tissue, SGC-7901 cells

IP: mouse testis tissue,

IHC: human thyroid cancer tissue, human ovary tissue

Background Information

The sodium iodide symporter (Na⁺/I⁻ symporter, NIS), encoded by SLC5A5, is an integral plasma membrane glycoprotein that plays an important role in iodide uptake by thyroid cells. Expression of sodium iodide symporter has also been found in extra-thyroidal tissues, including gastric mucosa, lactating mammary gland and salivary glands. Increased expression of sodium iodide symporter has been found in thyroid tissue from patients with Graves' disease as well as papillary thyroid carcinomas. In addition, sodium iodide symporter was found to express in majority of breast cancer tissue but not in normal tissue. Sodium iodide symporter can be a promising diagnostic and therapeutic tool for thyroid cancer and breast cancer. This antibody recognizes the mature approximately 75-100 kDa protein and a partially glycosylated 50-55 kDa protein. (PMID: 12588808, 9525971)

Notable Publications

Author	Pubmed ID	Journal	Application
Jun Wang	32940055	Hum Gene Ther	IF
Martin L Read	34520744	Cell Chem Biol	WB
Jianlu Song	30323976	Am J Cancer Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

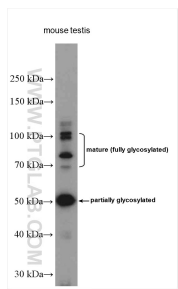
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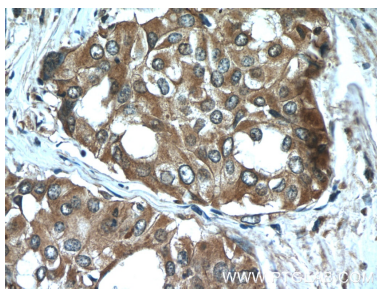
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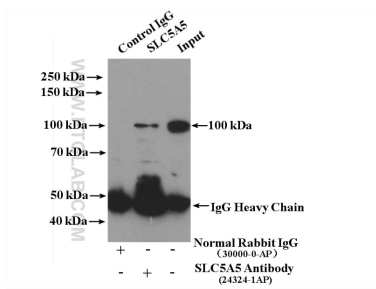
Selected Validation Data



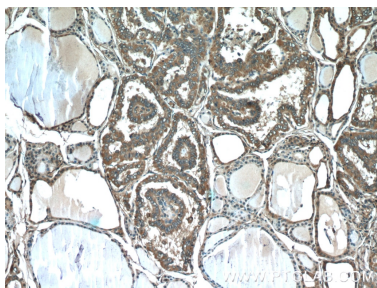
mouse testis tissue were subjected to SDS PAGE followed by western blot with 24324-1-AP (Sodium iodide symporter antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 24324-1-AP (Sodium iodide symporter antibody at dilution of 1:50 (under 40x lens).



IP result of anti-Sodium iodide symporter (IP:24324-1-AP, 4ug; Detection:24324-1-AP 1:500) with mouse testis tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 24324-1-AP (Sodium iodide symporter antibody at dilution of 1:50 (under 10x lens).