bs-0448R

[Primary Antibody]

Bioss ANTIBODIES

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NIS Rabbit pAb

- DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GenelD: 6528 **SWISS:** Q92911

Target: NIS

Immunogen: KLH conjugated synthetic peptide derived from human NIS:

525-618/618. < 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°C. Store at -20°C for one year. Avoid repeated

freeze/thaw cycles.

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.

Applications: WB (1:500-2000)

IHC-P (1:100-500) **IHC-F** (1:100-500) **IF** (1:100-500)

Reactivity: Mouse, Rat

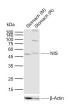
(predicted: Human)

Predicted _c

MW.: ^{68 kDa}

Subcellular Cytoplasm Location:

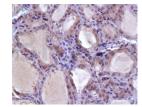
VALIDATION IMAGES



Sample: Lane 1: Mouse Stomach tissue lysates Lane 2: Rat Stomach tissue lysates Primary: Anti-NIS (bs-0448R) at 1/200 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 68 kDa Observed band size: 48 kDa



Tissue/cell: rat brain tissue; 4%
Paraformaldehyde-fixed and paraffinembedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-NIS Polyclonal Antibody,
Unconjugated(bs-0448R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat thyroid gland; 4%
Paraformaldehyde-fixed and paraffinembedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-NIS Polyclonal Antibody, Unconjugated(bs-0448R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

- SELECTED CITATIONS -

- [IF=6.291] Siying Tang. et al. GLIS3 mediated by the Rap1/PI3K/AKT signal pathway facilitates real-ambient PM2.5 exposure disturbed thyroid hormone homeostasis regulation. Ecotox Environ Safe. 2022 Mar;232:113248 WB; MOUSE. 35093813
- [IF=6.1] Guangshan Xie. et al. 2, 2', 4, 4'-tetrabromodiphenyl ether induces thyroid toxicity by targeting BRAF-mediated MEK-ERK-NIS pathway in human thyroid follicular epithelial cells. ECOTOX ENVIRON SAFE. 2025 Sep;302:118577 WB;Human. 40580633
- [IF=5.467] Jiang B.. et al. Primary human thyrocytes maintained the function of thyroid hormone production and

secretion in vitro. J ENDOCRINOL INVEST. 2023 May;:1-12 ICC; Human. 37133653

- [IF=4.872] Dong X et al. PM2.5 disrupts thyroid hormone homeostasis through activation of the hypothalamic-pituitary-thyroid (HPT) axis and induction of hepatic transthyretin in female rats 2.5Ecotoxicol Environ Saf.2021 Jan 15;208:111720. IHC,WB ;Rat. 33396051
- [IF=4.848] Shasha Hou. et al. Downregulation of miR-146b-3p Inhibits Proliferation and Migration and Modulates the Expression and Location of Sodium/Iodide Symporter in Dedifferentiated Thyroid Cancer by Potentially Targeting MUC20. Front Oncol. 2020; 10: 566365 WB,IF; Human. 33489878