



Anti-SLC5A5 (C-terminal) polyclonal antibody (DPAB2404RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Na ⁺ /I ⁻ Symporter
Antigen Description	The sodium/iodide symporter (NIS), also known as solute carrier family 5, member 5 (SLC5A5) is a protein that in humans is encoded by the SLC5A5 gene. The sodium/iodide symporter is a transmembrane glycoprotein with a molecular weight of 87 kDa and 13 transmembrane domains, which transports two sodium cations (Na ⁺) for each iodide anion (I ⁻) into the the cell. NIS mediated uptake of of iodide into follicular cells of the thyroid gland is the first step in the synthesis of thyroid hormone.
Specificity	Located in the cell membrane of thyroid cells, NIS can allow sodium and iodine flow across the membrane. The antiserum is raised against the C-terminus of rat NIS. Suitable for studying the sensitivity of thyroid tumors to iodine treatment. Absorption wit
Immunogen	Synthetic peptide from the C-terminus of rat NIS
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat
Conjugate	Unconjugated
Applications	IHC-Fr, IF
Positive Control	Frozen sections of rat thyroid
Format	Rabbit serum
Size	50 µl

Buffer	Dissolve in 50 – 100 µl distilled water, and dilute further with 0.1M PBS with 1% BSA and 0.1% Naazide
Preservative	0.1% Sodium Azide
Storage	At 2-8°C (freeze-dried) or reconstituted in small aliquots at -20°C for longer storage

GENE INFORMATION

Gene Name	SLC5A5 solute carrier family 5 (sodium iodide symporter), member 5 [Homo sapiens]
Official Symbol	SLC5A5
Synonyms	SLC5A5; solute carrier family 5 (sodium iodide symporter), member 5; NIS; TDH1; Sodium/iodide cotransporter; Na(+)/I(-) cotransporter; Sodium-iodide symporter; Solute carrier family 5 member 5; sodium/iodide cotransporter; Na(+)/I(-) symporter; Na(+)/I(-)-symporter; solute carrier family 5 member 5
Entrez Gene ID	6528
Protein Refseq	NP_000444
UniProt ID	Q92911
Chromosome Location	19p13.2-p12
Pathway	Amine-derived hormones; Metabolism; Metabolism of amino acids and derivatives; Organic anion transporters; SLC-mediated transmembrane transport; Thyroxine biosynthesis; Transmembrane transport of small molecules; Transport of inorganic cations/anions and amino acids/oligopeptides
Function	iodide transmembrane transporter activity; sodium:iodide symporter activity; symporter activity; transporter activity