



# Anti-SLC5A5 (aa 179-228) polyclonal antibody (CPBT-45577RH)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit Polyclonal antibody to Human SLC5A5.
<b>Antigen Description</b>	This gene encodes a member of the sodium glucose cotransporter family. The encoded protein is responsible for the uptake of iodine in tissues such as the thyroid and lactating breast tissue. The iodine taken up by the thyroid is incorporated into the metabolic regulators triiodothyronine (T3) and tetraiodothyronine (T4). Mutations in this gene are associated with thyroid dyshormonogenesis 1.
<b>Specificity</b>	Expression is primarily in thyroid tissue, but also to a lower extent in mammary gland and ovary. Expression is reduced in tumors.
<b>Immunogen</b>	Synthetic peptide corresponding to a region within the internal sequence amino acids 179-228 (TAVGGMKAVV WTDVFQVVVM LSGFWVVLAR GVMLVGGPRQ VLTLAQNHSR) of Human Sodium Iodide Symporter.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Immunogen affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB
<b>Sequence Similarities</b>	Belongs to the sodium:solute symporter (SSF) (TC 2.A.21) family.
<b>Cellular Localization</b>	Membrane.

<b>Format</b>	Liquid
<b>Size</b>	50 µg
<b>Buffer</b>	Preservative: None Constituents: 2% Sucrose, PBS
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">SLC5A5 solute carrier family 5 (sodium iodide symporter), member 5 [ Homo sapiens ]</a>
<b>Official Symbol</b>	SLC5A5
<b>Synonyms</b>	SLC5A5; solute carrier family 5 (sodium iodide symporter), member 5; sodium/iodide cotransporter; NIS; Na(+)/I(-) cotransporter; Na(+)/I(-) symporter; Na+/I- cotransporter; Na+/I- symporter; NIS; SC5A5_HUMAN; Slc5a5; sodium iodide symporter; Sodium-iodide symporter; Sodium/iodide cotransporter; Solute carrier family 5 (sodium iodide symporter) member 5; Solute carrier family 5 member 5; Na(+)/I(-) symporter; Na(+)/I(-)-symporter; Na(+)/I(-) cotransporter; solute carrier family 5 member 5; TDH1;
<b>Entrez Gene ID</b>	<a href="#">6528</a>
<b>Protein Refseq</b>	<a href="#">NP_000444</a>
<b>UniProt ID</b>	<a href="#">Q92911</a>
<b>Chromosome Location</b>	19p13.2-p12
<b>Pathway</b>	Amine-derived hormones, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Organic anion transporters, organism-specific biosystem; SLC-mediated transmembrane transport, organism-specific biosystem; Thyroxine biosynthesis, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem; Transport of inorganic cations/anions and amino acids/oligopeptides, organism-specif
<b>Function</b>	iodide transmembrane transporter activity; sodium:iodide symporter activity; symporter activity; transporter activity;