

SLC5A5 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14422b**Specification**

SLC5A5 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O92911](#)**SLC5A5 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 6528**Other Names**

Sodium/iodide cotransporter, Na(+)/I(-) cotransporter, Sodium-iodide symporter, Na(+)/I(-) symporter, Solute carrier family 5 member 5, SLC5A5, NIS

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SLC5A5 Antibody (C-term) Blocking Peptide - Protein Information**Name** SLC5A5**Synonyms** NIS**Function**

Sodium:iodide symporter that mediates the transport of iodide into the thyroid gland (PubMed:8806637, PubMed:9329364, PubMed:20797386, PubMed:12488351, PubMed:18372236, PubMed:18708479, PubMed:31310151, PubMed:32084174). Can also mediate the transport of chlorate, thiocyanate, nitrate and selenocyanate (PubMed:12488351).

Cellular Location

Cell membrane; Multi-pass membrane protein. Cytoplasm

Tissue Location

Expression is primarily in thyroid tissue, but also to a lower extent in mammary gland and ovary.
Expression is reduced in tumors.

SLC5A5 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SLC5A5 Antibody (C-term) Blocking Peptide - Images**SLC5A5 Antibody (C-term) Blocking Peptide - Background**

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 dysgenesis 1.

SLC5A5 Antibody (C-term) Blocking Peptide - References

Spitzweg, C., et al. Mol. Cell. Endocrinol. 322 (1-2), 56-63 (2010) ; Ricci, D., et al. Transplant. Proc. 42(5):1888-1894(2010) Renier, C., et al. J. Neurooncol. 96(3):331-336(2010) Montanelli, L., et al. Thyroid 19(12):1419-1425(2009) Smith, V.E., et al. J. Cell. Sci. 122 (PT 18), 3393-3402 (2009) :