

**STT3B Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP4883b****Specification**

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**STT3B Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q8TCJ2](#)**STT3B Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 201595**Other Names**

Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3B, Oligosaccharyl transferase subunit STT3B, STT3-B, Source of immunodominant MHC-associated peptides homolog, STT3B, SIMP

**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.

**STT3B Antibody (C-term) Blocking Peptide - Protein Information****Name** STT3B ([HGNC:30611](#))**Synonyms** SIMP**Function**

Catalytic subunit of the oligosaccharyl transferase (OST) complex that catalyzes the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains, the first step in protein N-glycosylation (PubMed:<a href="http://www.uniprot.org/citations/31831667" target="\_blank">31831667</a>).

N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). All subunits are required for a maximal enzyme activity. This subunit contains the active site and the acceptor peptide and donor lipid-linked oligosaccharide (LLO) binding pockets (By similarity). STT3B is present in a small subset of OST complexes and mediates both cotranslational and post-translational N-glycosylation of target proteins: STT3B-containing complexes are required for efficient post-translational glycosylation and while they are less competent than STT3A-containing complexes for cotranslational glycosylation, they have the ability to mediate glycosylation of some nascent sites that are not accessible for STT3A.

STT3B-containing complexes also act post-translationally and mediate modification of skipped glycosylation sites in unfolded proteins. Plays a role in ER-associated degradation (ERAD) pathway that mediates ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins by mediating N-glycosylation of unfolded proteins, which are then recognized by the ERAD pathway and targeted for degradation. Mediates glycosylation of the disease variant AMYL-TTR 'Asp-38' of TTR at 'Asn-118', leading to its degradation (PubMed:<a href="http://www.uniprot.org/citations/19167329" target="\_blank">19167329</a>, PubMed:<a href="http://www.uniprot.org/citations/22607976" target="\_blank">22607976</a>).

**Cellular Location**

Endoplasmic reticulum. Endoplasmic reticulum membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P39007}

**Tissue Location**

Expressed in heart, brain, placenta, lung, liver, muscle, kidney and pancreas. Expressed in skin fibroblasts (at protein level).

**STT3B Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**STT3B Antibody (C-term) Blocking Peptide - Images****STT3B Antibody (C-term) Blocking Peptide - Background**

STT3B contains a highly immunogenic minor histocompatibility antigen epitope of 9 amino acids, B6(dom1). Like ITM1 (MIM 601134), SIMP is homologous to yeast STT3, an oligosaccharyltransferase essential for cell proliferation.

**STT3B Antibody (C-term) Blocking Peptide - References**

Ruiz-Canada, C., et al. Cell 136(2):272-283(2009)Olsen, J.V., et al. Cell 127(3):635-648(2006)Shibatani, T., et al. Biochemistry 44(16):5982-5992(2005)