

**GT251 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP5577b****Specification**

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**GT251 Antibody (C-term) Blocking peptide - Product Information**Primary Accession  
Other Accession[Q8NBJ5](#)  
[NP\\_078932.2](#)**GT251 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 79709**Other Names**Procollagen galactosyltransferase 1, Collagen beta(1-O)galactosyltransferase 1,  
Glycosyltransferase 25 family member 1, Hydroxylysine galactosyltransferase 1, COLGALT1,  
GLT25D1**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.

**GT251 Antibody (C-term) Blocking peptide - Protein Information****Name** COLGALT1**Synonyms** GLT25D1**Function**

Beta-galactosyltransferase that transfers beta-galactose to hydroxylysine residues of type I collagen (PubMed:<a href="http://www.uniprot.org/citations/19075007" target="\_blank">19075007</a>, PubMed:<a href="http://www.uniprot.org/citations/22216269" target="\_blank">22216269</a>, PubMed:<a href="http://www.uniprot.org/citations/27402836" target="\_blank">27402836</a>). By acting on collagen glycosylation, facilitates the formation of collagen triple helix (PubMed:<a href="http://www.uniprot.org/citations/27402836" target="\_blank">27402836</a>). Also involved in the biosynthesis of collagen type IV (PubMed:<a href="http://www.uniprot.org/citations/30412317" target="\_blank">30412317</a>).

**Cellular Location**

Endoplasmic reticulum lumen {ECO:0000255|PROSITE- ProRule:PRU10138, ECO:0000269|PubMed:20470363}. Note=Colocalized with PLOD3 and mannose binding lectin/MBL2.

**Tissue Location**

Ubiquitous with higher levels in placenta, heart, lung and spleen.

**GT251 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**GT251 Antibody (C-term) Blocking peptide - Images****GT251 Antibody (C-term) Blocking peptide - Background**

GLT25D1 has a beta-galactosyltransferase activity; transfers beta-galactose to hydroxylysine residues of collagen.

**GT251 Antibody (C-term) Blocking peptide - References**

Schegg, B., et al. Mol. Cell. Biol. 29(4):943-952(2009)