

**GAL3ST1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8884c****Specification**

---

**GAL3ST1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q99999](#)**GAL3ST1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 9514**Other Names**

Galactosylceramide sulfotransferase, GalCer sulfotransferase,  
3'-phosphoadenosine-5'-phosphosulfate:GalCer sulfotransferase,  
3'-phosphoadenylylsulfate:galactosylceramide 3'-sulfotransferase, Cerebroside sulfotransferase,  
GAL3ST1, CST

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8884c](/products/AP8884c) was selected from the Center region of human GAL3ST1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**GAL3ST1 Antibody (Center) Blocking Peptide - Protein Information****Name** GAL3ST1 ([HGNC:24240](#))**Function**

Catalyzes the transfer of a sulfate group to position 3 of non-reducing beta-galactosyl residues in glycerolipids and sphingolipids, therefore participates in the biosynthesis of sulfoglycolipids (PubMed: [9030544](http://www.uniprot.org/citations/9030544), PubMed: [8830034](http://www.uniprot.org/citations/8830034)). Catalyzes the synthesis of galactosylceramide sulfate (sulfatide), a major lipid component of the myelin sheath and of monogalactosylalkylacylglycerol sulfate (seminolipid), present in spermatocytes (PubMed: [8830034](http://www.uniprot.org/citations/8830034)). Seems to prefer beta-glycosides at the non-reducing termini of sugar chains attached to a lipid moiety (PubMed: [8830034](#))

href="http://www.uniprot.org/citations/8830034" target="\_blank">8830034</a>). Also acts on lactosylceramide, galactosyl 1-alkyl-2-sn-glycerol and galactosyl diacylglycerol (in vitro) (PubMed:<a href="http://www.uniprot.org/citations/8830034" target="\_blank">8830034</a>).

**Cellular Location**

Golgi apparatus membrane; Single-pass type II membrane protein

**Tissue Location**

Expressed in kidney proximal tubule, gastric mucosa and adenocarcinoma (PubMed:9030544, PubMed:10785389). Highly expressed in renal cell carcinoma cell lines (PubMed:9030544, PubMed:8830034)

**GAL3ST1 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**GAL3ST1 Antibody (Center) Blocking Peptide - Images****GAL3ST1 Antibody (Center) Blocking Peptide - Background**

Sulfonation, an important step in the metabolism of many drugs, xenobiotics, hormones, and neurotransmitters, is catalyzed by sulfotransferases. GAL3ST1 is galactosylceramide sulfotransferase which catalyzes the conversion between 3'-phosphoadenylylsulfate + a galactosylceramide to adenosine 3',5'-bisphosphate + galactosylceramide sulfate. Activity of this sulfotransferase is enhanced in renal cell carcinoma.

**GAL3ST1 Antibody (Center) Blocking Peptide - References**

Siegrist,H.P., et.al., Biochim. Biophys. Acta 489 (1), 58-63 (1977)Stein,C., et.al., J. Biol. Chem. 264 (2), 1252-1259 (1989)