

**UGT1A10 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16269a****Specification**

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**UGT1A10 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9HAW8](#)**UGT1A10 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 54575**Other Names**UDP-glucuronosyltransferase 1-10, UDPGT 1-10, UGT1\*10, UGT1-10, UGT110,  
UDP-glucuronosyltransferase 1-J, UGT-1J, UGT1J, UDP-glucuronosyltransferase 1A10, UGT1A10,  
GNT1, UGT1**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.

**UGT1A10 Antibody (N-term) Blocking Peptide - Protein Information****Name** UGT1A10 ([HGNC:12531](#))**Synonyms** GNT1, UGT1**Function**

[Isoform 1]: UDP-glucuronosyltransferase (UGT) that catalyzes phase II biotransformation reactions in which lipophilic substrates are conjugated with glucuronic acid to increase the metabolite's water solubility, thereby facilitating excretion into either the urine or bile (PubMed:<a href="http://www.uniprot.org/citations/12181437" target="\_blank">12181437</a>, PubMed:<a href="http://www.uniprot.org/citations/18004212" target="\_blank">18004212</a>, PubMed:<a href="http://www.uniprot.org/citations/18052087" target="\_blank">18052087</a>, PubMed:<a href="http://www.uniprot.org/citations/18674515" target="\_blank">18674515</a>, PubMed:<a href="http://www.uniprot.org/citations/18719240" target="\_blank">18719240</a>, PubMed:<a href="http://www.uniprot.org/citations/19545173" target="\_blank">19545173</a>, PubMed:<a href="http://www.uniprot.org/citations/23288867" target="\_blank">23288867</a>, PubMed:<a href="http://www.uniprot.org/citations/26220143" target="\_blank">26220143</a>). Essential for the elimination and detoxification of drugs, xenobiotics and endogenous compounds (PubMed:<a href="http://www.uniprot.org/citations/12181437" target="\_blank">12181437</a>, PubMed:<a href="http://www.uniprot.org/citations/18004212" target="\_blank">18004212</a>). Catalyzes

the glucuronidation of endogenous estrogen hormones such as estradiol, estrone and estriol (PubMed:<a href="http://www.uniprot.org/citations/18719240" target="\_blank">18719240</a>, PubMed:<a href="http://www.uniprot.org/citations/23288867" target="\_blank">23288867</a>, PubMed:<a href="http://www.uniprot.org/citations/26220143" target="\_blank">26220143</a>). Also catalyzes the glucuronidation of the isoflavones genistein, daidzein, glycitein, formononetin, biochanin A and prunetin, which are phytoestrogens with anticancer and cardiovascular properties (PubMed:<a href="http://www.uniprot.org/citations/18052087" target="\_blank">18052087</a>, PubMed:<a href="http://www.uniprot.org/citations/19545173" target="\_blank">19545173</a>). Involved in the glucuronidation of the AGTR1 angiotensin receptor antagonist losartan, caderastan and zolarsatan, drugs which can inhibit the effect of angiotensin II (PubMed:<a href="http://www.uniprot.org/citations/18674515" target="\_blank">18674515</a>).

#### Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein

#### Tissue Location

Liver and colon (PubMed:9271343). Isoform 1 and isoform 2 are expressed in colon, esophagus and small intestine; isoform 2 but not isoform 1 is expressed in liver or kidney (PubMed:18004212).

### UGT1A10 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

### UGT1A10 Antibody (N-term) Blocking Peptide - Images

### UGT1A10 Antibody (N-term) Blocking Peptide - Background

UGT1A10 is a UDP-glucuronosyltransferase, an enzyme of the glucuronidation pathway that transforms small lipophilic molecules, such as steroids, bilirubin, hormones, and drugs, into water-soluble, excretable metabolites. This gene is part of a complex locus that encodes several UDP-glucuronosyltransferases. The locus includes thirteen unique alternate first exons followed by four common exons. Four of the alternate first exons are considered pseudogenes. Each of the remaining nine 5' exons may be spliced to the four common exons, resulting in nine proteins with different N-termini and identical C-termini. Each first exon encodes the substrate binding site, and is regulated by its own promoter. The enzyme encoded by this gene has glucuronidase activity on mycophenolic acid, coumarins, and quinolines. [provided by RefSeq].

### UGT1A10 Antibody (N-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Mick, E., et al. J Am Acad Child Adolesc Psychiatry 49(9):898-905(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Tang, L., et al. Mol. Pharm. 7(3):664-679(2010) Itaaho, K., et al. Drug Metab. Dispos. 38(4):687-696(2010)