

**GGTLA1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7392a****Specification**

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**GGTLA1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P36269](#)**GGTLA1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 2687**Other Names**

Gamma-glutamyltransferase 5, GGT 5, Gamma-glutamyl transpeptidase-related enzyme, GGT-rel, Gamma-glutamyltransferase-like activity 1, Gamma-glutamyltranspeptidase 5, Glutathione hydrolase 5, Leukotriene-C4 hydrolase, Gamma-glutamyltransferase 5 heavy chain, Gamma-glutamyltransferase 5 light chain, GGT5, GGTLA1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7392a](/products/AP7392a) was selected from the N-term region of human GGTLA1. 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.

**GGTLA1 Antibody (N-term) Blocking Peptide - Protein Information****Name** GGT5**Synonyms** GGTLA1**Function**

Cleaves the gamma-glutamyl peptide bond of glutathione and glutathione-S-conjugate such as leukotriene C4 (PubMed: <http://www.uniprot.org/citations/21447318>). Does not cleaves gamma-glutamyl compounds such as gamma-glutamyl leucine (PubMed: <http://www.uniprot.org/citations/21447318>). May also catalyze a transpeptidation reaction in addition to the hydrolysis reaction, transferring the gamma-glutamyl moiety to an acceptor amino acid to form a new gamma-glutamyl compound (PubMed: <http://www.uniprot.org/citations/21447318>)

target="\_blank">21447318</a>). Acts as a negative regulator of geranylgeranyl glutathione bioactivity by cleaving off its gamma-glutamyl group, playing a role in adaptive immune responses (PubMed:<a href="http://www.uniprot.org/citations/30842656" target="\_blank">30842656</a>).

**Cellular Location**

Membrane {ECO:0000250|UniProtKB:Q9Z2A9}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q9Z2A9}

**GGTLA1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**GGTLA1 Antibody (N-term) Blocking Peptide - Images****GGTLA1 Antibody (N-term) Blocking Peptide - Background**

This gene is a member of gamma-glutamyl transpeptidase enzymes. This enzyme consists of a heavy and a light chain, and is able to hydrolyze the gamma-glutamyl moiety of glutathione. It converts leukotriene C4 to leukotriene D4, however, it doesn't convert synthetic substrates that are commonly used to assay gamma-glutamyl transpeptidase.

**GGTLA1 Antibody (N-term) Blocking Peptide - References**

Heisterkamp,N., Hum. Genet. 123 (4), 321-332 (2008)Enoiu,M., Free Radic. Biol. Med. 29 (9), 825-833 (2000)