

**GGTLA1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP4914c****Specification**

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**GGTLA1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P36269](#)**GGTLA1 Antibody (Center) 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

**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 (Center) 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:<a href="http://www.uniprot.org/citations/21447318" target="\_blank">21447318</a>). Does not cleaves gamma-glutamyl compounds such as gamma-glutamyl leucine (PubMed:<a href="http://www.uniprot.org/citations/21447318" target="\_blank">21447318</a>). 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:<a href="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 (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **GGTLA1 Antibody (Center) Blocking Peptide - Images**

### **GGTLA1 Antibody (Center) Blocking Peptide - Background**

GGTLA1 is a member of a gene family that encodes 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 (Center) Blocking Peptide - References**

Heisterkamp, N., et al. Hum. Genet. 123(4):321-332(2008) Collins, J.E., et al. Genome Biol. 5 (10), R84 (2004) Enoiu, M., et al. Free Radic. Biol. Med. 29(9):825-833(2000)