

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

GGTLA1 Antibody (Center) Blocking Peptide - Product InformationPrimary 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:21447318). Does not cleaves gamma-glutamyl compounds such as gamma-glutamyl leucine (PubMed: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:21447318). Acts as a negative regulator of geranylgeranyl glutathione bioactivity by cleaving off its gamma-glutamyl group, playing a role in adaptive immune responses (PubMed:30842656).

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)