

**GGT1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19816a**

**Specification**

**GGT1 Antibody (N-term) - Product Information**

Application	<b>WB,E</b>
Primary Accession	<a href="#">P19440</a>
Other Accession	<a href="#">A6NGU5</a> , <a href="#">P36268</a> , <a href="#">P07314</a> , <a href="#">P20735</a> , <a href="#">Q60928</a> , <a href="#">NP_038347.2</a>
Reactivity	<b>Human, Mouse</b>
Predicted	<b>Pig, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit Ig</b>
Calculated MW	<b>61410</b>
Antigen Region	<b>124-152</b>

**GGT1 Antibody (N-term) - Additional Information**

**Gene ID 2678**

**Other Names**

Gamma-glutamyltranspeptidase 1, GGT 1, Gamma-glutamyltransferase 1, Glutathione hydrolase 1, Leukotriene-C4 hydrolase, CD224, Gamma-glutamyltranspeptidase 1 heavy chain, Gamma-glutamyltranspeptidase 1 light chain, GGT1, GGT

**Target/Specificity**

This GGT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 124-152 amino acids from the N-terminal region of human GGT1.

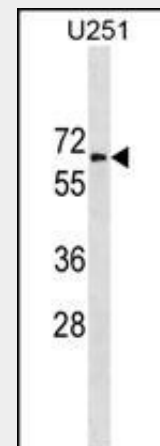
**Dilution**

WB~~1:1000

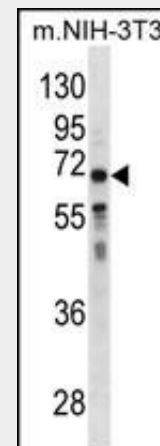
**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**



GGT1 Antibody (N-term) (Cat. #AP19816a) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the GGT1 antibody detected the GGT1 protein (arrow).



GGT1 Antibody (N-term) (Cat. #AP19816a) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the GGT1 antibody detected the GGT1 protein (arrow).

**GGT1 Antibody (N-term) - Background**

The enzyme encoded by this gene catalyzes the transfer of the glutamyl moiety of glutathione to a variety of amino acids and

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### Precautions

GGT1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### GGT1 Antibody (N-term) - Protein Information

**Name** GGT1

**Synonyms** GGT

### Function

Cleaves the gamma-glutamyl bond of extracellular glutathione (gamma-Glu-Cys-Gly), glutathione conjugates and other gamma-glutamyl compounds, such as leukotriene C4 (LTC4). The metabolism of glutathione by GGT1 releases free glutamate and the dipeptide cysteinyl-glycine, which is hydrolyzed to cysteine and glycine by dipeptidases. In the presence of high concentrations of dipeptides and some amino acids, can also catalyze a transpeptidation 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/17924658" target="\_blank">17924658</a>, PubMed:<a href="http://www.uniprot.org/citations/7673200" target="\_blank">7673200</a>, PubMed:<a href="http://www.uniprot.org/citations/7759490" target="\_blank">7759490</a>, PubMed:<a href="http://www.uniprot.org/citations/8095045" target="\_blank">8095045</a>, PubMed:<a href="http://www.uniprot.org/citations/8827453" target="\_blank">8827453</a>, PubMed:<a href="http://www.uniprot.org/citations/21447318" target="\_blank">21447318</a>). Contributes to cysteine homeostasis, glutathione homeostasis and in the conversion of the leukotriene LTC4 to LTD4.

### Cellular Location

Cell membrane; Single-pass type II membrane protein

dipeptide acceptors. The enzyme is composed of a heavy chain and a light chain, which are derived from a single precursor protein, and is present in tissues involved in absorption and secretion. This enzyme is a member of the gamma-glutamyltransferase protein family, of which many members have not yet been fully characterized and some of which may represent pseudogenes. This gene is classified as type I gamma-glutamyltransferase. Multiple alternatively spliced variants, encoding the same protein, have been identified.

### GGT1 Antibody (N-term) - References

Speliotes, E.K., et al. Hepatology 52(3):904-912(2010)  
Ikeda, M., et al. Scand. J. Clin. Lab. Invest. 70(3):171-179(2010)  
Fujita, M., et al. Exp. Biol. Med. (Maywood) 235(3):335-341(2010)  
Kamatani, Y., et al. Nat. Genet. 42(3):210-215(2010)  
Diernaard, B., et al. Pancreatology 10 (2-3), 194-200 (2010) :

{ECO:0000250|UniProtKB:P07314}

**Tissue Location**

Detected in fetal and adult kidney and liver, adult pancreas, stomach, intestine, placenta and lung. There are several other tissue-specific forms that arise from alternative promoter usage but that produce the same protein

**GGT1 Antibody (N-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)