

# GGT1 Rabbit mAb

Catalog # AP78328

## Product Information

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<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">P19440</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human GGT1
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	61410

## Additional Information

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<b>Gene ID</b>	2678
<b>Other Names</b>	GGT1
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	GGT1
<b>Synonyms</b>	GGT
<b>Function</b>	<p>Cleaves the gamma-glutamyl bond of extracellular glutathione (gamma-Glu-Cys-Gly), glutathione conjugates (such as maresin conjugate (13R)-S-glutathionyl-(14S)-hydroxy-(4Z,7Z,9E,11E,16Z,19Z)- docosahexaenoate, MCTR1) and other gamma-glutamyl compounds (such as leukotriene C4, LTC4) (PubMed:<a href="#">17924658</a>, PubMed:<a href="#">21447318</a>, PubMed:<a href="#">27791009</a>). The metabolism of glutathione by GGT1 releases free glutamate and the dipeptide cysteinyl-glycine, which is hydrolyzed to cysteine and glycine by dipeptidases (PubMed:<a href="#">27791009</a>). 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="#">17924658</a>, PubMed:<a href="#">21447318</a>, PubMed:<a href="#">7673200</a>, PubMed:<a href="#">7759490</a>, PubMed:<a href="#">8095045</a>, PubMed:<a href="#">8827453</a>).</p>

Contributes to cysteine homeostasis, glutathione homeostasis and in the conversion of the leukotriene LTC4 to LTD4.

**Cellular Location**

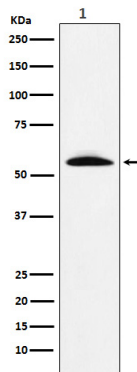
Cell membrane; Single-pass type II membrane protein  
{ECO:0000250|UniProtKB:P07314}

**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

## Images

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