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Anti-GGT1 / GGT Antibody (aa180-193)

Goat Anti Human Polyclonal Antibody
Catalog # ALS17917

Specification

Anti-GGT1 / GGT Antibody (aa180-193) - Product Information

Application	**WB, IHC-P, E**
Primary Accession	P19440
Predicted	**Human, Monkey**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**61410**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **E~~N/A**

Anti-GGT1 / GGT Antibody (aa180-193) - Additional Information

Gene ID 2678

Alias Symbol	**GGT1**

Other Names
GGT1, CD224 antigen, CD224, Ec 2.3.2.2, Glutamyl transpeptidase, GTG, Gamma-glutamyltransferase, Glutathione hydrolase 1, GLUTATHIONURIA, Gamma-glutamyl transpeptidase, Gamma-glutamyltransferase 1, Gamma-glutamyltranspeptidase 1, GGT, Leukotriene-C4 ...

Target/Specificity
Human GGT1 / GGT. Reported variants represent identical protein: NP_038347.2, NP_001027536.1, NP_001027537.1, NP_005256.2.

Reconstitution & Storage
Immunoaffinity purified

Precautions
Anti-GGT1 / GGT Antibody (aa180-193) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-GGT1 / GGT Antibody (aa180-193) - Protein Information

Name GGT1

Synonyms GGT

Function
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:17924658, PubMed:21447318, PubMed:27791009). The metabolism of glutathione by GGT1 releases free glutamate and the dipeptide cysteinyl-glycine, which is hydrolyzed to cysteine and glycine by dipeptidases (PubMed:27791009). 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:17924658, PubMed:21447318, PubMed:7673200, PubMed:7759490, PubMed:8095045, PubMed:8827453). 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

Anti-GGT1 / GGT Antibody (aa180-193) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-GGT1 / GGT Antibody (aa180-193) - Images