

Rabbit GGT1 Polyclonal Antibody | anti-GGT1 antibody

GGT1 Antibody

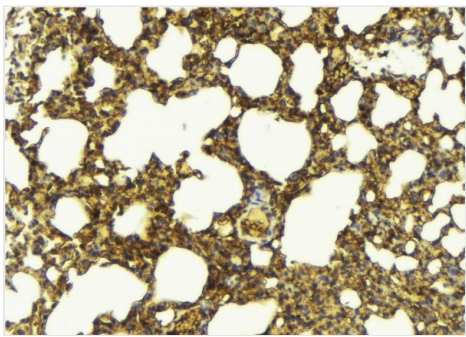
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326375	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

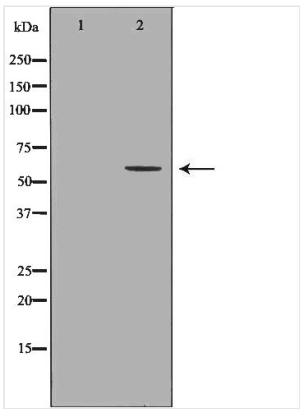
GGT1; Polyclonal Antibody; GGT1 Antibody; CD224; D22S672; D22S732; Gamma glutamyl transpeptidase; Gamma glutamyltransferase 1; Gamma glutamyltranspeptidase 1; Gamma-glutamyltransferase 1; Gamma-glutamyltranspeptidase 1 light chain; GGT 1; GGT; GGT1_HUMAN; Glutamyl transpeptidase; Glutathione hydrolase 1; GTG; Leukotriene C4 hydrolase; MGC96892; MGC96904; MGC96963; OTTHUMP00000028921; OTTHUMP00000197959; anti-GGT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GGT1 antibody detects endogenous levels of total GGT1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	569
Applicable Applications for anti-GGT1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GGT1
Subcellular Location	Membrane.
Tissue Specificity	Detected in fetal and adult kidney and liver, adult pancreas, stomach, intestine, placenta and lung. Isoform 3 is lung-specific. There are several other tissue-specific forms that arise from alternative promoter usage but that produce the same protein.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326375 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of A549 whole cell lysates, using GGT1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GGT1 antibody

Description: The enzyme encoded by this gene catalyzes the transfer of the glutamyl moiety of glutathione to a variety of amino acids and 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. [provided by RefSeq, Oct 2008]

Function: Cleaves the gamma-glutamyl bond of extracellular glutathione (gamma-Glu-Cys-Gly), glutathione conjugates, and other gamma-glutamyl compounds. The metabolism of glutathione 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. Initiates extracellular glutathione (GSH) breakdown, provides cells with a local cysteine supply and contributes to maintain intracellular GSH level. It is part of the cell antioxidant defense mechanism. Isoform 3 seems to be inactive.

Subunit Structure: Heterodimer composed of the light and heavy chains. The active site is located in the light chain.

Post-translational Modifications: N-glycosylated on both chains. Contains hexoses, hexosamines and sialic acid residues. Glycosylation profiles tested in kidney and liver tissues reveal the presence of tissue-specific and site-specific glycan composition, despite the overlap in composition among the N-glycans. A total of 36 glycan compositions, with 40 unique structures are observed. Up to 15 different glycans are observed at a single site, with site-specific variation in glycan composition. The difference in glycosylation profiles in the 2 tissues do not affect the enzyme activity. Cleaved by autocatalysis into a large and a small subunit and the autocatalytic cleavage is essential to the functional activation of the enzyme.

Similarity: Belongs to the gamma-glutamyltransferase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	572152963
NCBI GeneID	2678
NCBI Accession #	NP_001275762.1
NCBI GenBank Nucleotide #	NM_001288833.1
UniProt Accession #	P19440; Q08247; Q14404; Q8TBS1; Q9UMK1
Molecular Weight	Observed: 60 kDa Predicted: 62 kDa
NCBI Official Full Name	glutathione hydrolase 1 proenzyme
NCBI Official Synonym Full Names	gamma-glutamyltransferase 1

NCBI Official Symbol	GGT1
NCBI Official Synonym Symbols	GGT; GTG; GGTD; CD224; GGT 1; D22S672; D22S732
NCBI Protein Information	glutathione hydrolase 1 proenzyme
UniProt Protein Name	Glutathione hydrolase 1 proenzyme
UniProt Gene Name	GGT1
UniProt Synonym Gene Names	GGT; GGT 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ggt1-antibody-immunohistochemistry-western-blot-elisa/326375>