GGT7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GGT7, Polyclonal Antibody
Full Product Name	GGT7, NT (GGT7, GGTL3, GGTL5, Gamma-glutamyltransferase 7, Gamma-glutamyltransferase-like 3, Gamma-glutamyltransferase-like 5, Gamma-glutamyltranspeptidase 7, Glutathione hydrolase 7, Gamma-glutamyltransferase 7 heavy chain, Gamma-glutamyltransferase 7 li
Product Gene Name	anti-GGT7 antibody
Product Synonym Names	GGT7; GGTL3; GGTL5; Gamma-glutamyltransferase 7; Gamma-glutamyltransferase-like 3; Gamma-glutamyltransferase-like 5; Gamma-glutamyltranspeptidase 7; Glutathione hydrolase 7; Gamma-glutamyltransferase 7 heavy chain; Gamma-glutamyltransferase 7 light chain
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	70,467 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (33432523..33460661, complement). Location: 20q11.22
OMIM	612342
3D Structure	ModBase 3D Structure for Q9UJ14
Immunogen	GGT7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 23-53 amino acids from the N-terminal region of human GGT7.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-GGT7 antibody	Antibodies; Enzymes; Transferase
Applications Tested/Suitable for anti-GGT7 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-GGT7 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-GGT7 antibody	This gene is a member of a gene family that encodes enzymes involved in both the metabolism of glutathione and in the transpeptidation of amino acids. Changes in the activity of gamma-glutamyltransferase may signal preneoplastic or toxic conditions in the liver or kidney. The protein encoded by this gene consists of a heavy and a light chain, and it can interact with CT120, a plasma membrane-associated protein that is possibly involved in lung carcinogenesis.

Product References and Citations for anti-GGT7 antibody	Rose, J. Phd, et al. Mol. Med. (2010). In press: Heisterkamp, N., et al. Hum. Genet. 123(4):321-332(2008). He, X., et al. Biochem. Biophys. Res. Commun. 297(3):528-536(2002). Figlewicz, D.A., et al. Genomics 17(2):299-305(1993).
Other Notes	Small volumes of anti-GGT7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GGT7 purchase	MBS6302180 is an antibody targeting GGT7. Also known as GGT7, NT (GGT7, GGTL3, GGTL5, Gamma-glutamyltransferase 7, Gamma-glutamyltransferase-like 3, Gamma-glutamyltransferase-like 5, Gamma-glutamyltranspeptidase 7, Glutathione hydrolase 7, Gamma-glutamyltransferase 7 heavy chain, Gamma-glutamyltransferase 7 li. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GGT7. It may not necessarily be applicable to this product.

NCBI GI #	109148539
NCBI GeneID	2686
NCBI Accession #	NP_821158.2
UniProt Primary Accession #	Q9UJ14
UniProt Secondary Accession #	Q8N899; Q8NF66; Q9BYP5; Q9BYP6
UniProt Related Accession #	Q9UJ14
GenBank Nucleotide #	NM_178026.2
NCBI Official Full Name	gamma-glutamyltransferase 7
NCBI Official Synonym Full Names	gamma-glutamyltransferase 7
NCBI Official Symbol	GGT7
NCBI Official Synonym Symbols	GGT4; GGTL3; GGTL5; D20S101; dJ18C9.2
UniProt Protein Name	Gamma-glutamyltransferase 7
UniProt Synonym Protein Names	Gamma-glutamyltransferase-like 3; Gamma-glutamyltransferase-like 5; Gamma-glutamyltranspeptidase 7; Glutathione hydrolase 7
Protein Family	Gamma-glutamyltransferase
UniProt Gene Name	GGT7
UniProt Synonym Gene Names	GGTL3; GGTL5; GGT 7
UniProt Entry Name	GGT7_HUMAN
NCBI Protein Information	gamma-glutamyltransferase 7; GGT 7; glutathione hydrolase 7; gamma-glutamyltransferase 4; gamma-glutamyltranspeptidase 7; gamma-glutamyltransferase-like 3; gamma-glutamyltransferase-like 5; gamma-glutamyltranspeptidase-like 3

UniProt Comments for GGT7	GGTL3: Cleaves glutathione conjugates. Belongs to the gamma-glutamyltransferase family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Other Amino Acids Metabolism - glutathione; EC 3.4.19.13; Other Amino Acids Metabolism - selenoamino acid; Transferase; Other Amino Acids Metabolism - cyanoamino acid; Lipid Metabolism - arachidonic acid; EC 2.3.2.2; Membrane protein, integral; Other Amino Acids Metabolism - taurine and hypotaurine Chromosomal Location of Human Ortholog: 20q11.22 Cellular Component: anchored to external side of plasma membrane; integral to membrane Molecular Function: gamma-glutamyltransferase activity Biological Process: leukotriene biosynthetic process; glutathione metabolic process; glutathione biosynthetic process; proteolysis
Research Articles on GGT7	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
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