Product Name: GGT1 Rabbit Polyclonal Antibody

C EnkiLife

Catalog #: APRab11431

Summary

Production Name GGT1 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application WB,IHC,

Reactivity Human, Rat, Mouse

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Storage

Gene Name GGT1

GGT1; GGT; Gamma-glutamyltranspeptidase 1; GGT 1; Gamma-glutamyltransferase 1; Alternative Names

Glutathione hydrolase 1; Leukotriene-C4 hydrolase; CD224

Gene ID 2678.0

P19440.The antiserum was produced against synthesized peptide derived from the N-SwissProt ID

terminal region of human GGT1. AA range:21-70

Application

Dilution Ratio WB 1:500 - 1:2000 IHC 1:100 - 1:300. ELISA: 1:20000...

Molecular Weight 61kD

Product Name: GGT1 Rabbit Polyclonal Antibody Catalog #: APRab11431

Ci EnkiLife

Background

The enzyme encoded by this gene is a type I gamma-glutamyltransferase that 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. It is expressed in tissues involved in absorption and secretion and may contribute to the etiology of diabetes and other metabolic disorders. Multiple alternatively spliced variants have been identified. There are a number of related genes present on chromosomes 20 and 22, and putative pseudogenes for this gene on chromosomes 2, 13, and 22. [provided by RefSeq, Jan 2014], catalytic activity: (5-L-glutamyl)-peptide + an amino acid = peptide + 5-L-glutamyl amino acid., disease: Defects in GGT1 are a cause of glutathionuria [MIM:231950]; also known as gamma-glutamyltranspeptidase deficiency. It is an autosomal recessive disease.,function:Initiates extracellular glutathione (GSH) breakdown, provides cells with a local cysteine supply and contributes to maintain intracelular GSH level. It is part of the cell antioxidant defense mechanism. Catalyzes the transfer of the glutamyl moiety of glutathione to amino acids and dipeptide acceptors. Alternatively, glutathione can be hydrolyzed to give Cys-Gly and gamma glutamate. Isoform 3 seems to be inactive, function: Initiates extracellular glutathione (GSH) breakdown; catalyzes the transfer of the glutamyl moiety of glutathione to amino acids and dipeptide acceptors, miscellaneous: Corresponds to the light chain of other gamma-glutamyltransferase family members., miscellaneous: Cys-454 was thought to bind the gamma-glutamyl moiety, but mutagenesis of this residue had no effect on activity, online information: Gamma-glutamyl transpeptidase entry, pathway: Sulfur metabolism; glutathione metabolism., PTM:N-glycosylated on both chains. Contains hexoses, hexosamines and sialic acid residues. It is not known if the sialic acid residues are present on N-linked or on O-linked glycans., similarity: Belongs to the gamma-glutamyltransferase family, subunit: Heterodimer composed of the light and heavy chains. The active site is located in the light chain, 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., tissue specificity; Highly expressed in fetal and adult kidney and liver.,

Research Area

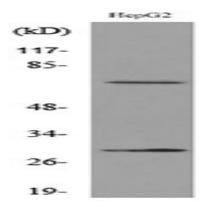
Taurine and hypotaurine metabolism;Selenoamino acid metabolism;Cyanoamino acid metabolism;Glutathione metabolism;Arachidonic acid metabolism;

Image Data

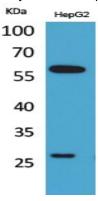
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

Product Name: GGT1 Rabbit Polyclonal Antibody Catalog #: APRab11431

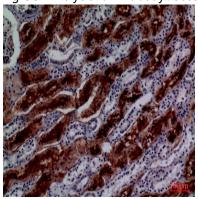




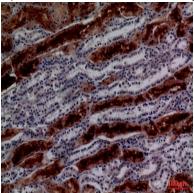
Western blot analysis of lysate from HepG2 cells, using GGT1 Antibody.



Western Blot analysis of HepG2 cells using GGT1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:100



Product Name: GGT1 Rabbit Polyclonal Antibody Catalog #: APRab11431



Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:100

Note

For research use only.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838