

Cleaved GGT1 (light chain,Thr381) Rabbit pAb

CatalogNo: YC0166

Key Features

Host Species

- Rabbit

Reactivity

- Human,Mouse,Rat

Applications

- WB,ELISA

MW

- 16kD,62kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:1000-2000

ELISA 1:5000-20000

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human GGT1 (light chain, Cleaved-Thr381)

Specificity This antibody detects endogenous levels of Human GGT1 (light chain, Cleaved-Thr381, protein was cleaved amino acid sequence between 380-381)

Target Information

Gene name GGT1 GGT

Protein Name	GGT1 (light chain, Cleaved-Thr381)		
	Organism	Gene ID	UniProt ID
	Human	2678;	P19440;
	Mouse	14598;	Q60928;
	Rat	116568;	P07314;
Cellular Localization	Cell membrane ; Single-pass type II membrane protein .		
Tissue specificity	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.; [Isoform 3]: Lung-specific.		
Function	<p>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 intracellular 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.,</p>		

| Validation Data

| Contact information

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product information:
**Cleaved GGT1 (light
chain,Thr381)
Rabbit pAb**

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