Best Tools for immunology Research

Cleaved-GGT4 HC (T472) Polyclonal Antibody

Catalog No :	YC0086
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	GGT4 HC
Fields :	>>Taurine and hypotaurine metabolism;>>Glutathione metabolism;>>Metabolic pathways
Gene Name :	GGT7
Protein Name :	Gamma-glutamyltransferase 7
Human Gene Id :	2686
Human Swiss Prot No :	Q9UJ14
Mouse Gene Id :	207182
Mouse Swiss Prot No :	Q99JP7
Rat Gene Id :	156275
Rat Swiss Prot No :	Q99MZ4
Immunogen :	The antiserum was produced against synthesized peptide derived from human Gamma-glutamyltransferase 4. AA range:423-472
Specificity :	Cleaved-GGT4 HC (T472) Polyclonal Antibody detects endogenous levels of fragment of activated GGT4 HC protein resulting from cleavage adjacent to T472.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

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

Observed Band : 50kD

Cell Pathway : Taurine and hypotaurine metabolism;Selenoamino acid metabolism;Cyanoamino acid metabolism;Glutathione metabolism;Arachidonic acid metabolism;

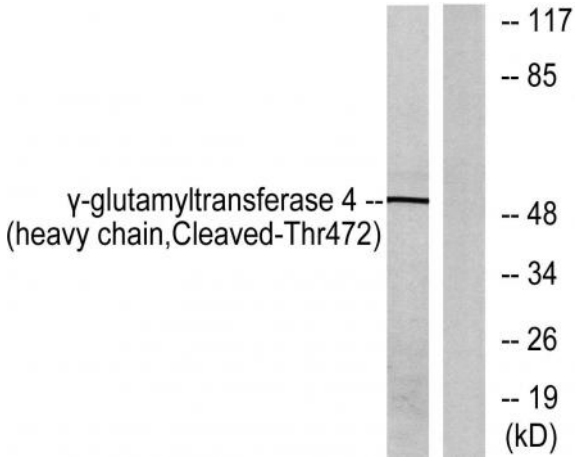
Background : This gene is a member of a gene family that encodes enzymes involved in both the metabolism of glutathione and in the transpeptidation of amino acids. Changes in the activity of gamma-glutamyltransferase may signal preneoplastic or toxic conditions in the liver or kidney. The protein encoded 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. [provided by RefSeq, Jul 2008],

Function : catalytic activity:(5-L-glutamyl)-peptide + an amino acid = peptide + 5-L-glutamyl amino acid.,function:Cleaves glutathione conjugates.,pathway:Sulfur metabolism; glutathione metabolism.,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 (By similarity). Isoform 3 interacts with FAM57A.,tissue specificity:Widely expressed, but at low level, except in the airway epithelial cells. Detected in brain, heart, kidney, liver, lung, spleen, testis and trachea.,

Subcellular Location : Membrane ; Single-pass type II membrane protein .

Expression : Widely expressed, but at low level, except in the airway epithelial cells. Detected in brain, heart, kidney, liver, lung, spleen, testis and trachea.

Products Images



Western blot analysis of lysates from Jurkat cells, treated with etoposide 25uM 24h, using Gamma-glutamyltransferase 4 (heavy chain,Cleaved-Thr472) Antibody. The lane on the right is blocked with the synthesized peptide.