

GCSm- γ Polyclonal Antibody

Catalog No :	YT1884
Reactivity :	Human;Mouse;Rat;Monkey
Applications :	WB;IHC;IF;ELISA
Target :	GCSm- γ
Fields :	>>Cysteine and methionine metabolism;>>Glutathione metabolism;>>Metabolic pathways;>>Biosynthesis of cofactors;>>Ferroptosis
Gene Name :	GCLM
Protein Name :	Glutamate--cysteine ligase regulatory subunit
Human Gene Id :	2730
Human Swiss Prot No :	P48507
Mouse Gene Id :	14630
Mouse Swiss Prot No :	O09172
Rat Gene Id :	29739
Rat Swiss Prot No :	P48508
Immunogen :	The antiserum was produced against synthesized peptide derived from human GCSm-gamma. AA range:42-91
Specificity :	GCSm- γ Polyclonal Antibody detects endogenous levels of GCSm- γ protein.
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. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

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 :	31kD
Cell Pathway :	Glutathione metabolism;
Background :	Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase, is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. Gamma glutamylcysteine synthetase deficiency has been implicated in some forms of hemolytic anemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015],
Function :	pathway:Sulfur metabolism; glutathione biosynthesis; glutathione from L-cysteine and L-glutamate: step 1/2.,similarity:Belongs to the aldo/keto reductase family. Glutamate--cysteine ligase light chain subfamily.,subunit:Heterodimer of a catalytic heavy chain and a regulatory light chain.,tissue specificity:In all tissues examined. Highest levels in skeletal muscle.,
Subcellular Location :	cytosol,glutamate-cysteine ligase complex,
Expression :	In all tissues examined. Highest levels in skeletal muscle.

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