

## GCSm- $\gamma$ Polyclonal Antibody

<b>Catalog No :</b>	YT1884
<b>Reactivity :</b>	Human;Mouse;Rat;Monkey
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	GCSm- $\gamma$
<b>Fields :</b>	>>Cysteine and methionine metabolism;>>Glutathione metabolism;>>Metabolic pathways;>>Biosynthesis of cofactors;>>Ferroptosis
<b>Gene Name :</b>	GCLM
<b>Protein Name :</b>	Glutamate--cysteine ligase regulatory subunit
<b>Human Gene Id :</b>	2730
<b>Human Swiss Prot No :</b>	P48507
<b>Mouse Gene Id :</b>	14630
<b>Mouse Swiss Prot No :</b>	O09172
<b>Rat Gene Id :</b>	29739
<b>Rat Swiss Prot No :</b>	P48508
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human GCSm-gamma. AA range:42-91
<b>Specificity :</b>	GCSm- $\gamma$ Polyclonal Antibody detects endogenous levels of GCSm- $\gamma$ protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

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<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	31kD
<b>Cell Pathway :</b>	Glutathione metabolism;
<b>Background :</b>	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],
<b>Function :</b>	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.,
<b>Subcellular Location :</b>	cytosol,glutamate-cysteine ligase complex,
<b>Expression :</b>	In all tissues examined. Highest levels in skeletal muscle.

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