

## GCSm-γ Polyclonal Antibody

Catalog No :	YT1884
Reactivity :	Human;Mouse;Rat;Monkey
Applications :	WB;IHC;IF;ELISA
Target :	GCSm-y
Fields :	>>Cysteine and methionine metabolism;>>Glutathione metabolism;>>Metabolic pathways;>>Biosynthesis of cofactors;>>Ferroptosis
Gene Name :	GCLM
Protein Name :	Glutamatecysteine ligase regulatory subunit
Human Gene Id :	2730
Human Swiss Prot	P48507
Mouse Gene Id :	14630
Mouse Swiss Prot	O09172
No : 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-y Polyclonal Antibody detects endogenous levels of GCSm-y 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



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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. Glutamatecysteine 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	cytosol,glutamate-cysteine ligase complex,
Expression :	In all tissues examined. Highest levels in skeletal muscle.
Sort :	6523
No4 :	1

## Products Images







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Western blot analysis of Mouse-kidney mouse-brain lysis using GCSm- $\gamma$  antibody. Antibody was diluted at 1:1000

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Immunohistochemical analysis of paraffin-embedded Human placenta. Antibody was diluted at 1:100(4° overnight). Highpressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was preabsorbed by immunogen peptide.

Immunohistochemistry analysis of GCSm- $\!\gamma$  antibody in paraffinembedded human prostate carcinoma tissue.



Western blot analysis of lysate from COS7 cells, using GCSm- $\!\gamma$  antibody.