



GSHB Polyclonal Antibody

Catalog No	YP-Ab-07802
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	GSS
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	GSHB Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GSHB;GSS;Glutathione synthetase (GSH synthetase) (GSH-S) (EC 6.3.2.3) (Glutathione synthase)
Observed Band	52kD
Calculated Molecular Weight	52kD
Cell Pathway	cytosol,extracellular exosome,
Tissue Specificity	Brain,Fetal brain cortex,Kidney,Lung,
Function	catalytic activity:ATP + gamma-L-glutamyl-L-cysteine + glycine = ADP + phosphate + glutathione.,disease:Defects in GSS are the cause of glutathione synthetase deficiency (GSS deficiency) [MIM:266130]; referred to as 5-oxoprolinuria. It is a severe form characterized by an increased rate of hemolysis and defective function of the central nervous system.,disease:Defects in GSS are the cause of glutathione synthetase deficiency of erythrocytes [MIM:231900]. It is a mild form causing hemolytic anemia.,pathway:Sulfur metabolism; glutathione biosynthesis; glutathione from L-cysteine and L-glutamate: step 2/2.,similarity:Belongs to the eukaryotic GSH synthase family., subunit:Homodimer.,

Background

Glutathione is important for a variety of biological functions, including protection of cells from oxidative damage by free radicals, detoxification of xenobiotics, and membrane transport. The protein encoded by this gene functions as a homodimer to catalyze the second step of glutathione biosynthesis, which is the ATP-dependent conversion of gamma-L-glutamyl-L-cysteine to glutathione. Defects in this gene are a cause of glutathione synthetase deficiency. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images