

AB-PN752

GCLC-pS5+pS8 Antibody

Phosphosite-specific rabbit polyclonal antibody for GCLC



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Target Protein

Protein Name Long:	Glutamate--cysteine ligase catalytic subunit
Protein Alias:	Gamma-ECS; Gamma-glutamylcysteine synthetase; GCS; GCS heavy chain; GLCL; GLCLC; Glutamate-cysteine ligase catalytic; Glutamate-cysteine ligase, catalytic; Glutamate-cysteine ligase, catalytic subunit; GSH1
UniProt ID:	P48506
Protein Molecular Mass:	72,766 Da (637 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human GCLC
Antibody Immunogen Sequence:	GLL(pS)QG(pS)PLS(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues G2 to S11. The effects of S5 and S8 phosphorylation are unclear. These are two of the major <i>in vivo</i> phosphorylation sites in GCLC (≥12 and >15 reports, respectively, by mass spectrometry recorded in PhosphoSitePlus). These human phosphosites are highly conserved in vertebrates and also found in yeast.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.4 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Rhesus macaque Dog Rat Mouse Frog Zebra fish Fruit fly Nematode worm

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987