

GCLM Conjugated Antibody

Catalog No: #C49677



Package Size: #C49677-AF350 100ul #C49677-AF405 100ul #C49677-AF488 100ul
 #C49677-AF555 100ul #C49677-AF594 100ul #C49677-AF647 100ul
 #C49677-AF680 100ul #C49677-AF750 100ul #C49677-Biotin 100ul

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Description

Product Name	GCLM Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	Gamma ECS regulatory subunit antibody Gamma-ECS regulatory subunit antibody Gamma-glutamylcysteine synthetase regulatory subunit antibody GCLM antibody GCS light chain antibody GLCLR antibody Glutamate cysteine ligase regulatory subunit antibody Glutamate--cysteine ligase modifier subunit antibody Glutamate--cysteine ligase regulatory subunit antibody GSC light chain antibody GSH0_HUMAN antibody
Accession No.	Swiss-Prot#:P48507
Uniprot	P48507
GeneID	2730;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

Gamma-glutamylcysteine synthetase (γ -GCS) is the rate limiting enzyme for glutathione (L-gamma-glutamyl-L-cysteinylglycine, GSH) synthesis. GSH is ubiquitous in mammalian cells as a vital intra- and extracellular protective antioxidant. γ -GCS is a heterodimer of a heavy catalytic subunit and a light regulatory subunit that is responsive to inflammation, phenolic antioxidants, heat shock, oxidants and cytokines. The human gamma-GCS gene encoding the 367 amino acid catalytic subunit maps to chromosome 6p12. The human γ -GCS gene encoding the regulatory subunit maps to chromosome 1p22-p21. The two subunits of γ -GCS form a heterodimeric zinc metalloprotein that gains activity through formation of a reversible disulfide bond.

Note: This product is for in vitro research use only