

Recombinant Glutamate-Cysteine Ligase Regulatory Subunit Antibody

Rabbit Monoclonal Antibody [Clone GCLM/13771R]

Catalog No	Format	Size
2730-RBM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2730-RBM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2730-RBM2-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

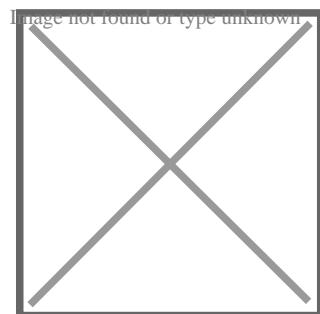
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

Clone	GCLM/13771R
Immunogen	Recombinant full-length human GCLM protein
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	30.73kDa
Species Reactivity	Human
Positive Control	intestine.

**Optimal dilution for a specific application should be determined.*

Product Images for Recombinant Glutamate-Cysteine Ligase Regulatory Subunit Antibody



Western Blot Analysis of human intestine lysate using GCLM Recombinant Rabbit Monoclonal Antibody (GCLM/13771R).

Specificity & Comments

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

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.