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Anti-GCLM Rabbit mAb [84C16]

Catalog No.: A52129

Basic Information

Catalog No. (Cat.No.)	A52129
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	GCLM,GCL modifier subunit,glutamate-cysteine ligase regulatory subunit

Product Information

Target	GCLM
Molecular Weight(Calculated)	31 kDa
Molecular Weight(Observed)	31 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	84C16
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:500
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Glutamate-cysteine ligase regulatory subunit
Gene Name	*GCLM*
Domain	NA
Background	GCLM (Glutamate-Cysteine Ligase Modifier Subunit) is a regulatory subunit protein of the key glutathione synthetase family, widely expressed in metabolically active human tissues such as liver, kidney and lung. It coregulates endogenous glutathione synthesis, oxidative stress defense and cellular antioxidant homeostasis. By binding to the GCLC catalytic subunit, GCLM regulates the overall activity of glutamate-cysteine ligase, mediates the synthesis of glutathione, a key endogenous antioxidant, and eliminates intracellular reactive oxygen species to reduce oxidative damage. Downregulated expression or dysfunction of GCLM leads to insufficient glutathione synthesis, decreased antioxidant capacity and accumulated oxidative damage, further inducing liver injury, pulmonary fibrosis, tumors and neurodegenerative diseases.