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Anti-Glutamine Synthetase Rabbit mAb [53G73]

Catalog No.: A52133

Basic Information

Catalog No. (Cat.No.)	A52133
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	Glutamine Synthetase,GLUL,GS,GLNS,glutamine synthetase,glutamate-ammonia ligase

Product Information

Target	Glutamine Synthetase
Molecular Weight(Calculated)	42 kDa
Molecular Weight(Observed)	42 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	53G73
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	1:1000-1:4000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Glutamate-ammonia ligase (Glutamine synthetase)
Gene Name	*GLUL*
Domain	NA
Background	Glutamine Synthetase (GS) is a core member of the key nitrogen metabolic synthetase family, widely expressed in human liver, brain, muscle and tumor tissues. It coregulates in vivo glutamine synthesis, nitrogen metabolic balance, cell proliferation and neural homeostasis. GS catalyzes the synthesis of glutamine from glutamate and ammonia, maintains nitrogen metabolic balance, provides key raw materials for cell growth and protein synthesis, and participates in neurotransmitter metabolism and tissue repair. Abnormal overexpression of GS remodels cellular metabolic patterns, promotes tumor cell proliferation, migration and immune escape, and exerts oncogenic effects in liver cancer and glioma, while GS deficiency leads to nitrogen metabolism disorder and neurological abnormalities.