For Research Use Only

MARS Recombinant antibody

Catalog Number:83690-4-RR

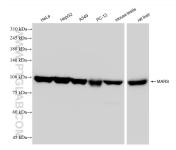


Basic Information	Catalog Number: 83690-4-RR	GenBank Accession Number: BC002384	Purification Method: Protein A purification	
	Size: 1000 μg/ml	GeneID (NCBI): 4141	CloneNo.: 240648G4	
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG6619	UNIPROT ID: P56192 Full Name: methionyl-tRNA synthetase	Recommended Dilutions: WB 1:2000-1:16000 IF/ICC 1:125-1:500	
				Calculated MW: 101 kDa
		Observed MW: 101 kDa		
		Applications	Tested Applications: WB, IF/ICC, ELISA Species Specificity: human, mouse, rat	Positive
	eLa cells, HepG2 cells, A549 cells, PC-12 cells, testis tissue, rat liver tissue			
IF/ICC : HepG2 cells,				
Background Information	The methionyl-tRNA synthetase (MARS) gene encodes cytoplasmic methionyl-tRNA synthetase (MetRS) responsible for catalyzing the ligation of methionine to tRNA. MetRS belongs to a family of aminoacyl-tRNA synthetases that play critical roles in protein biosynthesis by charging tRNAs with their cognate amino acids. MetRS overexpression was shown to be evident in human colon cancer patients. MetRS may thus be involved in oncogenic transformation. MetRS has been proven as a potential prognostic marker candidate for the clinical prognostic prediction of non-small-cell lung cancer (NSCLC) in patients. MetRS can also be used to detect intracellular oxidative stress and control protein synthesis under oxidative stress (PMID: 30271085, PMID: 34679529, PMID: 32404475). The calculated molecular weight of MetRS is 101 kDa.			
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer:	after shipment.		

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

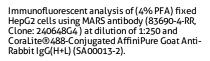
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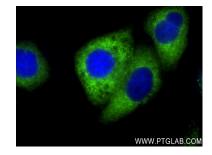
Selected Validation Data



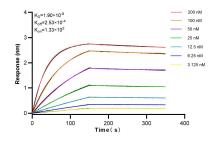
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Various lysates were subjected to SDS PAGE followed by western blot with 83690-4-RR (MARS antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.





Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MARS antibody (83690-4-RR, Clone: 240648G4) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 83690-4-RR against Human MARS were performed. The affinity constant is 1.90 nM.