For Research Use Only

Mouse cGAS Recombinant antibody, PBS Only Catalog Number:84045-1-PBS

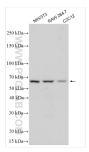


Basic Information	Catalog Number: 84045-1-PBS	GenBank Accession Number: BC 145651	Purification Method: Protein A purfication
	Concentration: 1 mg/ml	GeneID (NCBI): 214763	CloneNo.: 240964E2
	Source: Rabbit	UNIPROT ID: Q8C6L5	
	lsotype: IgG	Full Name: RIKEN cDNA E330016A19 gene	
	Immunogen Catalog Number: AG31677	Calculated MW: 58 kDa	
		Observed MW: 58 kDa	
Applications	Tested Applications: WB, IF/ICC, IP, ELISA		
	Species Specificity: mouse		
Background Information	cGAS (cyclic GMP-AMP synthase) is a cytosolic DNA sensor that serves to mount an immune response against the invasion of microbial pathogens such as viruses. cGAS normally resides as an inactive protein in the cell. Upon binding to DNA, cGAS undergoes a conformational change to an active state and produces the second messenger cyclic GMP-AMP (cGAMP) from ATP and GTP, which is subsequently detected by the cyclic-dinucleotide sensor STING, an ~40 kDa dimeric transmembrane protein at the endoplasmic reticulum (ER). cGAS not only is found in the cytosol but has a multifaceted cellular distribution that involves localization at the cell membrane and in the nucleus (PMID: 32424334). The calculated molecular weight of cGAS is 58 kDa. With post-translational modification, the MW of cGAS will be migrated to 70 kDa.		
Storage	Storage: Store at -80°C. The product is shipped with ice pa Storage Buffer: PBS only, pH7.3	cks. Upon receipt, store it immediatel	yat-80°C

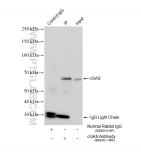
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

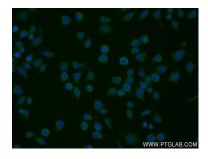
Selected Validation Data



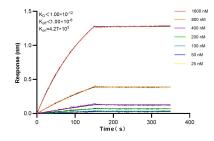
Various lysates were subjected to SDS PAGE followed by western blot with 84045-1-RR (cGAS antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84045-1-PBS in a different storage buffer formulation.



IP result of anti-cGAS (IP:84045-1-RR, 4ug; Detection:84045-1-RR 1:600) with NIH/3T3 cells lysate 1920 ug. This data was developed using the same antibody clone with 84045-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed RAW 264.7 cells using cGAS antibody (84045-1-RR, Clone: 240964E2) at dilution of 1:250 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit [gG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84045-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLL) kinetic assays of 84045-1-RR against Mouse cGAS were performed. The affinity constant is below 1 pM.