

For Research Use Only

cGAS Recombinant antibody

Catalog Number: 82869-1-RR



Basic Information

Catalog Number: 82869-1-RR	GenBank Accession Number: BC113608	Purification Method: Protein A purification
Size: 400 µg/ml	GeneID (NCBI): 115004	CloneNo.: 1H1
Source: Rabbit	UNIPROT ID: Q8N884	Recommended Dilutions: WB 1:1000-1:4000 IF 1:50-1:500
Isotype: IgG	Full Name: chromosome 6 open reading frame 150	
Immunogen Catalog Number: AG23455	Calculated MW: 496 aa, 54 kDa	
	Observed MW: 62 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: Human	WB : HeLa cells, HL-60 cells, THP-1 cells, MCF-7 cells, NK-92 cells IF : A431 cells,

Background Information

cGAS (Cyclic GMP-AMP synthase), also known as C6orf150 or h-cGAS, is a 522 aa protein. cGAS mediates innate immune responses against invading pathogens, or against self-dsDNA, which causes autoimmune disorders. The cGAS sensor not only recognizes cytosolic dsDNA but also synthesizes the second messenger cGAMP from ATP and GTP, which then binds to and activates STING. STING undergoes conformational changes and translocation from the endoplasmic reticulum to the Golgi apparatus to encounter TBK1 and IRF3, eventually triggering the production of type I IFNs.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

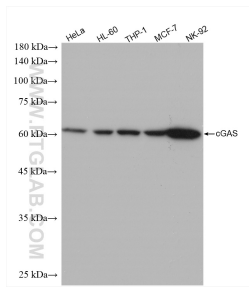
T: 4006900926

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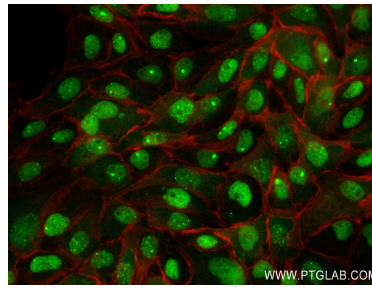
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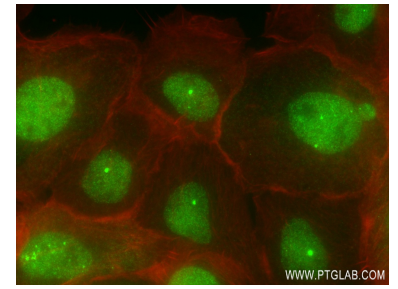
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82869-1-RR (cGAS antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using cGAS antibody (82869-1-RR, Clone: 1H1) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using cGAS antibody (82869-1-RR, Clone: 1H1) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).