

For Research Use Only

cGAS Polyclonal antibody

Catalog Number: 26416-1-AP

Featured Product

67 Publications



Basic Information

Catalog Number: 26416-1-AP	GenBank Accession Number: BC113608	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 115004	Recommended Dilutions: WB 1:2000-1:16000 IHC 1:400-1:1600 IF 1:200-1:800
Source: Rabbit	UNIPROT ID: Q8N884	
Isotype: IgG	Full Name: chromosome 6 open reading frame 150	
Immunogen Catalog Number: AG23455	Calculated MW: 496 aa, 54 kDa	
	Observed MW: 58 kDa	

Applications

Tested Applications: WB, IF, IHC, ELISA	Positive Controls: WB: HL-60 cells, THP-1 cells
Cited Applications: WB, IP, IF, IHC	IHC: human colon cancer tissue, human colon tissue
Species Specificity: human	IF: HeLa cells,
Cited Species: human, pig	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Chengzhi Han	36070120	Mol Neurobiol	IF
Shuai Liu	36058409	Int J Pharm	WB,IF,IHC
Jie Wang	29089548	Sci Rep	WB

Storage

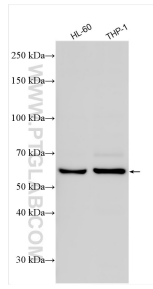
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

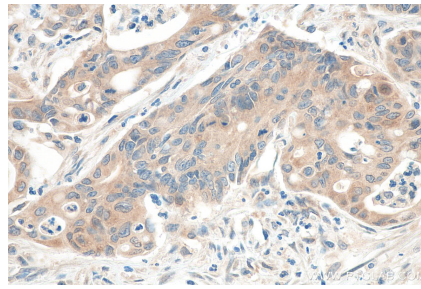
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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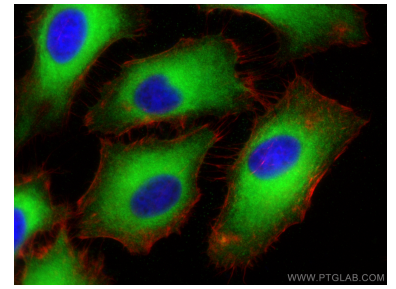
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 26416-1-AP (cGAS antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 26416-1-AP (cGAS antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using cGAS antibody (26416-1-AP) at dilution of 1:400 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).