

For Research Use Only

cGAS Polyclonal antibody

Catalog Number: 26416-1-AP

Featured Product

100 Publications



Basic Information

Catalog Number:

26416-1-AP

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG23455

GenBank Accession Number:

BC113608

GeneID (NCBI):

115004

UNIPROT ID:

Q8N884

Full Name:

chromosome 6 open reading frame

150

Calculated MW:

496 aa, 54 kDa

Observed MW:

58 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IHC 1:400-1:1600

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human

Cited Species:

human, rat, pig, bovine, hamster

Positive Controls:

WB : HL-60 cells, HAP1 cells, THP-1 cells

IHC : human colon cancer tissue, human colon tissue

IF/ICC : HeLa cells,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

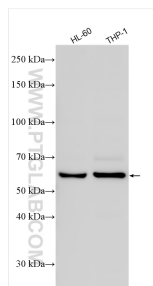
T: 4006900926

E: Proteintech-CN@ptglab.com

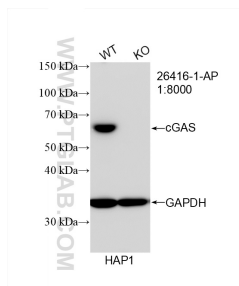
W: ptgcn.com

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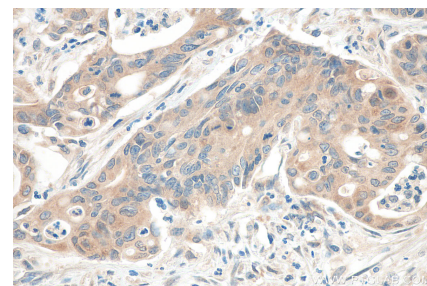
Selected Validation Data



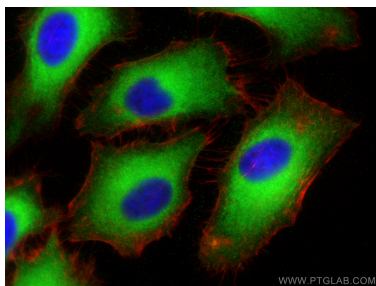
Various lysates were subjected to SDS PAGE followed by western blot with 26416-1-AP (cGAS antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



WB result of cGAS antibody (26416-1-AP; 1:8000; room temperature for 1.5 hours) with wild-type and cGAS knockout HAP1 cells.



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).