

# Product Datasheet

## cGAS Antibody - BSA Free NBP3-16666-100ul

Unit Size: 100 ul

Store at -20C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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**NBP3-16666-100ul**

cGAS Antibody - BSA Free

Product Information	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	PBS (pH 7.3), 50% glycerol
<b>Target Molecular Weight</b>	59 kDa

Product Description	
<b>Description</b>	Novus Biologicals Rabbit cGAS Antibody - BSA Free (NBP3-16666) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-cGAS Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	115004
<b>Gene Symbol</b>	CGAS
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Recombinant fusion protein containing a sequence corresponding to amino acids 350-522 of human cGAS (NP_612450.2). KQLRLKPFYLVPKHAKGNGFQEETWRLSFSHIEKEILNNHGKSKTCCENKEE KCCRKDCLKMKYLLLEQLKERFKDKKHLDFSSYHVKTAFFHVCTQNPQDSQ WDRKDLGLCFDNCVITYFLQCLRTEKLENYFIPEFNLFSSNLIDKRSKEFLTKQIE YERNNEFPVFDEF

Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:500 - 1:1000, ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements., Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/Immunofluorescence 1:50 - 1:200, Immunohistochemistry-Paraffin 1:50 - 1:200



## Images

Western Blot: cGAS Antibody - BSA Free [NBP3-16666] - Western blot analysis of lysates from HeLa cells using cGAS Rabbit pAb at 1:1000 dilution.

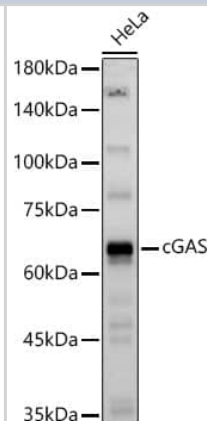
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.

Lysates/proteins: 25 ug per lane.

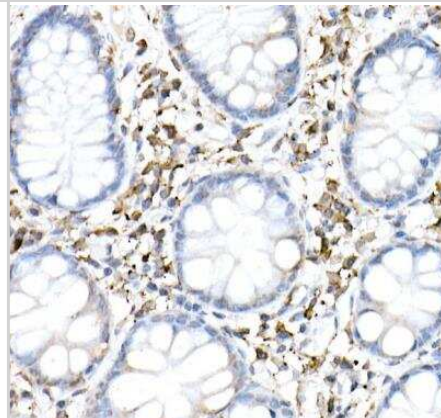
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit.

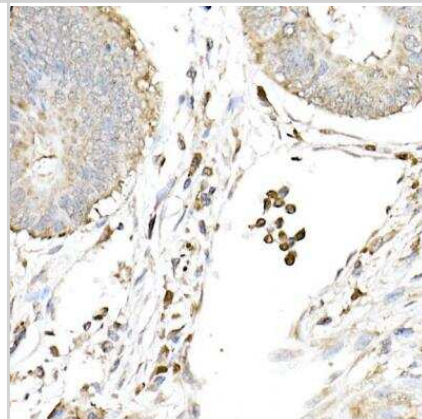
Exposure time: 30s.



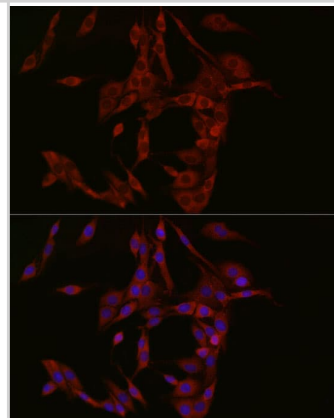
Immunohistochemistry-Paraffin: cGAS Antibody [NBP3-16666] - Human colon using cGAS Rabbit pAb at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



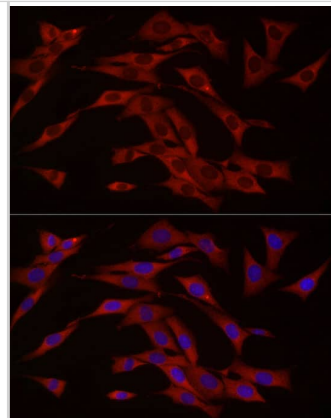
Immunohistochemistry-Paraffin: cGAS Antibody [NBP3-16666] - Human colon carcinoma using cGAS Rabbit pAb at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



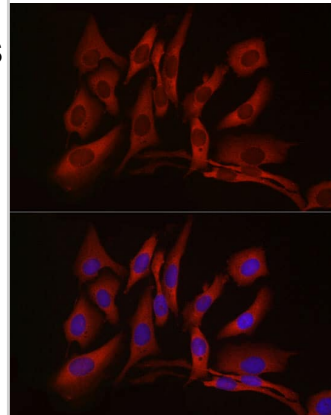
Immunocytochemistry/ Immunofluorescence: cGAS Antibody - BSA Free [NBP3-16666] - Immunofluorescence analysis of PC-12 cells using cGAS Rabbit pAb at dilution of 1:50 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunocytochemistry/ Immunofluorescence: cGAS Antibody - BSA Free [NBP3-16666] - Immunofluorescence analysis of NIH/3T3 cells using cGAS Rabbit pAb at dilution of 1:50 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunocytochemistry/ Immunofluorescence: cGAS Antibody - BSA Free [NBP3-16666] - Immunofluorescence analysis of U2OS cells using cGAS Rabbit pAb at dilution of 1:50 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Western Blot: cGAS Antibody - BSA Free [NBP3-16666] - Western blot analysis of lysates from THP-1 cells using cGAS Rabbit pAb at 1:1000 dilution incubated overnight at 4C.

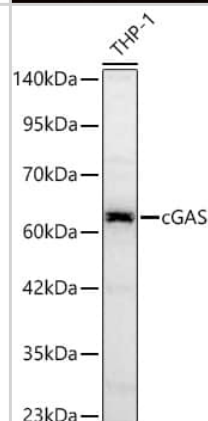
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.

Lysates/proteins: 25 ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit.

Exposure time: 90s.



Western Blot: cGAS Antibody - BSA Free [NBP3-16666] - Western blot analysis of lysates from HT-29 cells using cGAS Rabbit pAb at 1:1000 dilution incubated overnight at 4C.

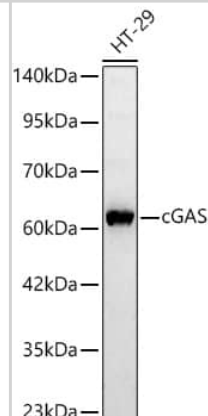
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.

Lysates/proteins: 25 ug per lane.

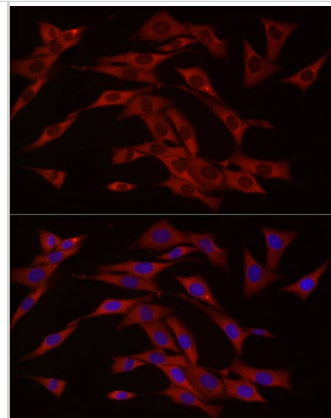
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit.

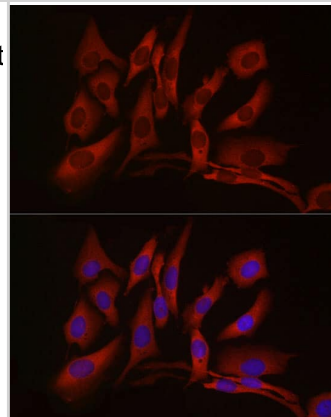
Exposure time: 60s.



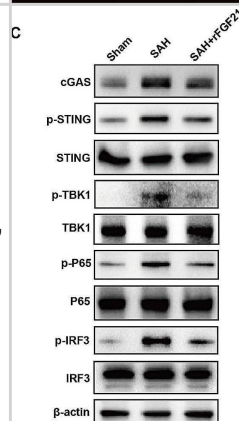
Immunocytochemistry/ Immunofluorescence: cGAS Antibody - BSA Free [cGAS] - Immunofluorescence analysis of NIH/3T3 cells using cGAS Rabbit pAb at dilution of 1:50 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunocytochemistry/ Immunofluorescence: cGAS Antibody - BSA Free [cGAS] - Immunofluorescence analysis of U2OS cells using cGAS Rabbit pAb at dilution of 1:50 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



rFGF21 inhibits the activation of cGAS-STING pathway following SAH. (A) GSEA plot showing that the activation of cytosolic dna sensing pathway were activated in the brain from SAH mice, which were then alleviated following rFGF21 treatment. (B) Heatmap showing that differently expressed genes involved in cytosolic DNA sensor pathway. (C-H) Western blot analysis of the effects of rFGF21 treatment on the expression level of cGAS and the phosphorylation level of STING, TBK1, IRF3, and NF- $\kappa$ B following SAH operation in mice. (n = 6 per group). Data are presented as means  $\pm$  SD. \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$  Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38720350>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Luo M, Hu Y, Lv D et al. Recurrent Hypoglycemia Impaired Vascular Function in Advanced T2DM Rats by Inducing Pyroptosis Oxidative medicine and cellular longevity Jul 23 2022 12:00AM [PMID: 35915611] (WB, Rat)

Details:

Dilution: 1:1000



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### **Products Related to NBP3-16666-100ul**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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