

# Product Datasheet

## cGAS Antibody - BSA Free

### NBP1-86761

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 9/9/2025 v.20.1

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**NBP1-86761**

cGAS Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

**Product Description**

<b>Description</b>	Novus Biologicals Rabbit cGAS Antibody - BSA Free (NBP1-86761) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-cGAS Antibody: Cited in 11 publications. 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
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: RKQLRLKPFYLVPKHAKENGFGQEEETWRLSFSHIEKEILNNHGKSKTCCENKE EKCCRKDCLKLMKYLLEQLKERF

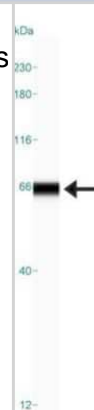
**Product Application Details**

<b>Applications</b>	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 0.04 - 0.4 ug/mL, Simple Western 1:30, Immunohistochemistry Reactivity reported in scientific literature (PMID: 35099823), Immunocytochemistry/ Immunofluorescence Reactivity reported in scientific literature (PMID: 24970844]
<b>Application Notes</b>	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in RT-4, separated by Size, antibody dilution of 1:30, apparent MW was 65 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

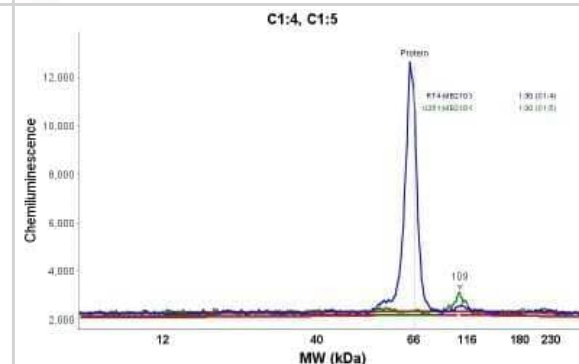


## Images

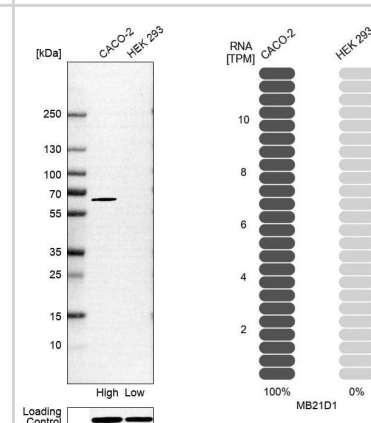
Simple Western: cGAS Antibody [NBP1-86761] - Simple Western lane view shows a specific band for MB21D1 in 0.2 mg/ml of RT-4 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: cGAS Antibody [NBP1-86761] - Electropherogram image(s) of corresponding Simple Western lane view. MB21D1 antibody was used at 1:30 dilution on RT-4 lysate(s).



Analysis in human cell line CACO-2 and human cell line HEK 293.



## Publications

Deater M, Tamhankar M, Lloyd RE. TDRD3 is an antiviral restriction factor that promotes IFN signaling with G3BP1 PLOS Pathogens 2022-01-27 [PMID: 35085371] (Western Blot)

Nicole Berndt, Christine Wolf, Kristina Fischer, Emanuel Cura Costa, Peter Knuschke, Nick Zimmermann, Franziska Schmidt, Martin Merkel, Osvaldo Chara, Min Ae Lee-Kirsch, Claudia Günther Photosensitivity and cGAS-Dependent IFN-1 Activation in Patients with Lupus and TREX1 Deficiency. The Journal of investigative dermatology 2022-05-09 [PMID: 34400195]

Li K, Gong Y, Qiu D et al. Hyperbaric oxygen facilitates teniposide-induced cGAS-STING activation to enhance the antitumor efficacy of PD-1 antibody in HCC Journal for immunotherapy of cancer 2022-08-01 [PMID: 36002188] (WB)

Lohinai Z, Dora D, Caldwell C et al. Loss of STING expression is prognostic in non-small cell lung cancer Journal of surgical oncology 2022-01-31 [PMID: 35099823] (IF/IHC, Human)

Luzwick JW, Dombi E, Boisvert RA et al. MRE11-dependent instability in mitochondrial DNA fork protection activates a cGAS immune signaling pathway Science advances 2021-12-17 [PMID: 34910513]

Chen H, Chen H, Zhang J et al. cGAS suppresses genomic instability as a decelerator of replication forks Sci Adv 2020-10-01 [PMID: 33055160] (ICC/IF, Human)

Schwertner B, Lindner G, Toledo Stauner C et al. Nectin-1 Expression Correlates with the Susceptibility of Malignant Melanoma to Oncolytic Herpes Simplex Virus In Vitro and In Vivo Cancers 2021-06-19 [PMID: 34205379] (IHC-P, Human)

Verrier E R, Yim S A et al. Hepatitis B Virus Evasion From Cyclic Guanosine Monophosphate-Adenosine Monophosphate Synthase Sensing in Human Hepatocytes. Hepatology 2018-01-11 [PMID: 29679386] (WB, Human)

Hansen K, Prabakaran T, Laustsen A et al. Listeria monocytogenes induces IFN-beta expression through an IFI16-, cGAS- and STING-dependent pathway. EMBO J 2014-08-01 [PMID: 24970844] (ICC/IF, Human)

Berg RK, Rahbek SH, Kofod-Olsen E et al. T Cells Detect Intracellular DNA but Fail to Induce Type I IFN Responses: Implications for Restriction of HIV Replication. PLoS One 2014-01-01 [PMID: 24404168]

Schoggins JW, MacDuff DA, Imanaka N et al. Pan-viral specificity of IFN-induced genes reveals new roles for cGAS in innate immunity. Nature 2014-01-30 [PMID: 24284630] (WB)





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### **Products Related to NBP1-86761**

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NBP1-86761PEP	cGAS Recombinant Protein Antigen
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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