

# Product Datasheet

## GRAF Antibody - BSA Free NBP1-89732

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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### Publications: 2

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**NBP1-89732**

GRAF 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>	Affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

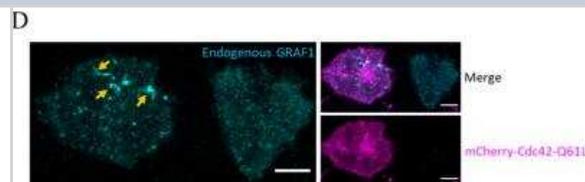
Product Description	
<b>Description</b>	Novus Biologicals Rabbit GRAF Antibody - BSA Free (NBP1-89732) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-GRAF Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	23092
<b>Gene Symbol</b>	ARHGAP26
<b>Species</b>	Human
<b>Reactivity Notes</b>	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (88%).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: HLSRKKSSDSKPPSCSERPLTLFHTVQSTEKQEQRNSIINSSLESVSSNPNSILN SSSSLQPNMNSSDPDLAVVKPTRPNSLPPNPSPS

Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence Reported in scientific literature (PMID:31690048)., Immunohistochemistry-Paraffin 1:200 - 1:500
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

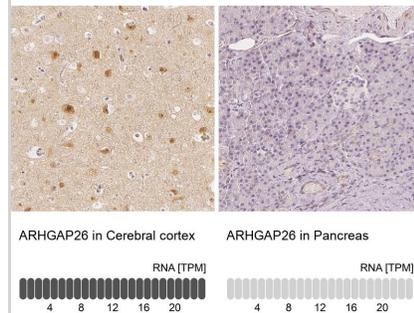


## Images

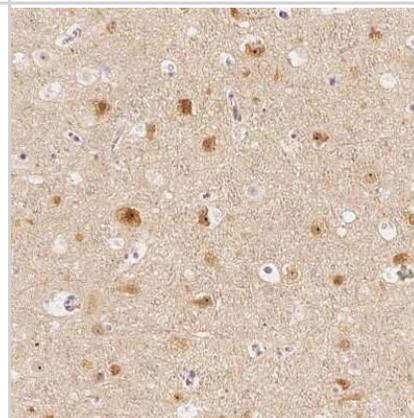
GRAF-Antibody-Immunocytochemistry-Immunofluorescence-NBP1-89732-img0013.jpg



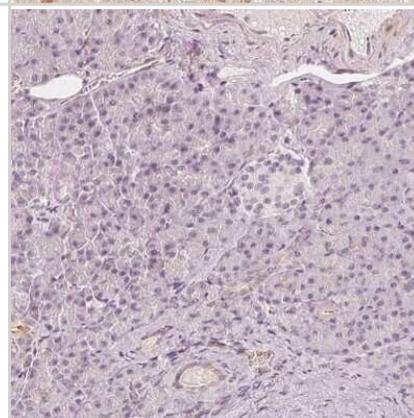
Analysis in human cerebral cortex and pancreas tissues using Anti-ARHGAP26 antibody. Corresponding ARHGAP26 RNA-seq data are presented for the same tissues.



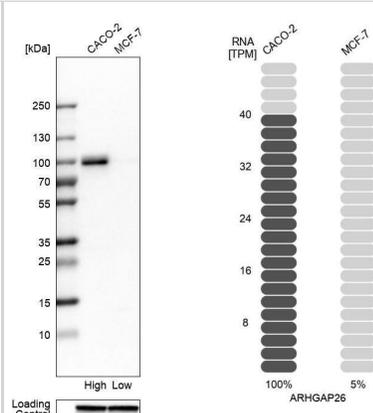
Immunohistochemistry-Paraffin: GRAF Antibody [NBP1-89732] - Staining of human cerebral cortex shows high expression.



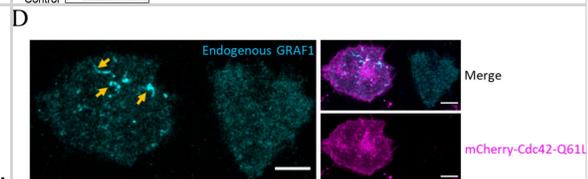
Immunohistochemistry-Paraffin: GRAF Antibody [NBP1-89732] - Staining of human pancreas shows low expression as expected.



Analysis in human cell lines Caco-2 and MCF-7 using Anti-ARHGAP26 antibody. Corresponding ARHGAP26 RNA-seq data are presented for the same cell lines. Loading control: Anti-GAPDH.



Cdc42 and GRAF1 regulate the formation of tubular structures in activated T cells. (A) Jurkat T cells expressing GFP-GRAF1 (left) or GFP-GRAF1-BAR-PH (right) were activated on coverslips coated with functional antibodies against CD3 $\epsilon$  and CD28 for 10 min and fixed with paraformaldehyde (PFA). Images are maximum intensity projection of confocal z-stacks (B) Left: Maximum intensity projection of a Jurkat T cell expressing GFP-GRAF1 and myc-Cdc42-Q61L and activated as in (A). Right: the same cell shown in a 3D reconstruction. (C) Blinded quantification of the percentage of cells expressing GFP-GRAF1 and mCherry-tagged Cdc42 variants as indicated and having at least one GRAF1-positive tubule. Each data point represents the mean of an individual experiment, 75–136 cells per experiment. Small horizontal lines indicate mean ( $\pm$ SEM), \*  $p < 0.05$ ; \*\*\*  $p < 0.001$ ; unpaired, two-tailed student's t-test. (D) Jurkat T cells expressing GFP-Cdc42-Q61L, activated and fixed as in (A) and stained with an antibody against endogenous GRAF1. Arrows indicate GRAF1-positive tubules. Images representative of at least three independent experiments. Scale bar: 5  $\mu$ m. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/31690048>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Rossatti P, Ziegler L, Schregle R et al. Cdc42 Couples T Cell Receptor Endocytosis to GRAF1-Mediated Tubular Invaginations of the Plasma Membrane Cells. [PMID: 31690048] (ICC/IF, Human)

Bozoky B, Savchenko A, Csermely P et al. Novel signatures of cancer-associated fibroblasts. Int J Cancer 2013-07-15 [PMID: 23319410]



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### **Products Related to NBP1-89732**

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NBP1-89732PEP	GRAF Recombinant Protein Antigen
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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