Product Datasheet

GFP Antibody (9F9.F9) - BSA Free
NB600-597

Unit Size: 0.1 mg

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

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Reviews: 3 Publications: 56

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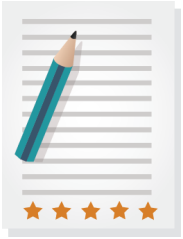
Updated 2/21/2025 v.20.1



NB600-597

GFP Antibody (9F9.F9) - BSA Free

Product Information

Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	9F9.F9
Preservative	0.01% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Product Description

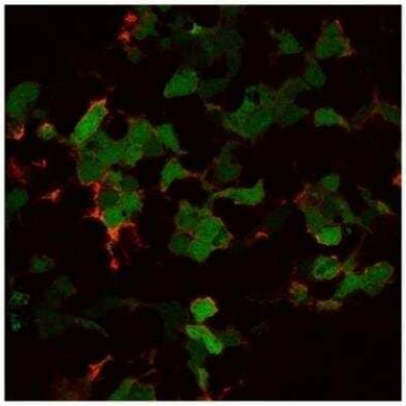
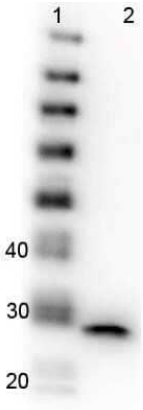
Description	GFP Monoclonal Antibody was prepared from tissue culture supernatant by Protein A affinity chromatography. Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse Serum Store this antibody at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.
Host	Mouse
Species	Non-species specific
Reactivity Notes	Reactivity is observed against recombinant Green Fluorescent Protein from Aequorea victoria by both Western blot and ELISA. No reaction is seen against RFP. Recognizes fusion proteins in Drosophila, reactivity reported in scientific literature (PMID: 26586808). Human reactivity reported in scientific literature (PMID: 28198010).
Specificity/Sensitivity	Reactivity is observed against recombinant Green Fluorescent Protein from Aequorea victoria by both Western blot and ELISA. No reaction is seen against RFP.
Immunogen	Recombinant Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246 aa) derived from the jellyfish Aequorea victoria.

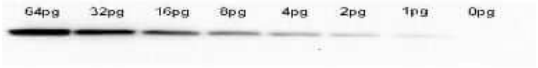
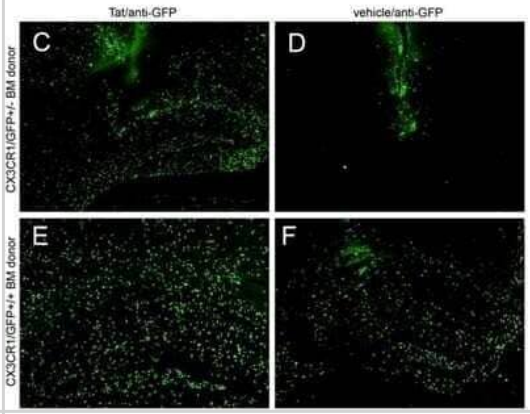
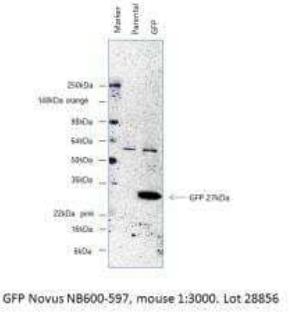
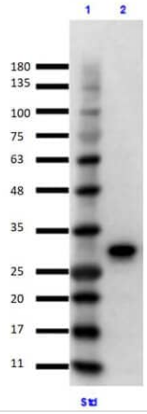
Product Application Details

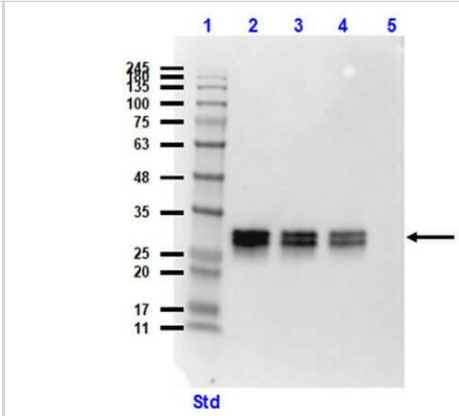
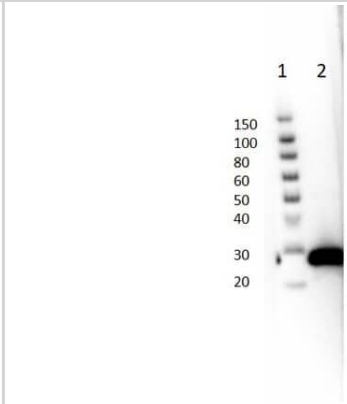
Applications	Western Blot, Dot Blot, ELISA, Flow Cytometry, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, In vitro assay, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:3000-1:30000, Flow Cytometry 1:1:10 - 1:1000, ELISA 1:10000-1:30000, Immunohistochemistry 1:1000-1:5000, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10 - 1:500, Immunoblotting, In vitro assay, Dot Blot 1:100 - 1:2000, Knockdown Validated

Application Notes	This product is designed to detect enhanced GFP and GFP containing recombinant proteins. Tested in ELISA, IP, and WB and suitable in FACS, IHC, IF. This antibody can be used to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen. Biotin conjugated monoclonal anti-GFP is well suited to titrate GFP in a sandwich ELISA in combination with polyclonal anti-GFP as the capture antibody. Only use the monoclonal form for the detection of enhanced or recombinant GFP. Polyclonal anti-GFP detects all variants of GFP tested to date. The biotin conjugated detection antibody is typically used with streptavidin conjugated HRP or other streptavidin conjugates. The use of polyclonal anti-GFP results in significant amplification of signal when fluorochrome conjugated polyclonal anti-GFP is used relative to the fluorescence of GFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated anti-GFP to detect GFP or GFP containing proteins on western blots. Optimal titers for applications should be determined by the researcher. Use in In vitro assay reported in scientific literature (PMID 23125142). Use in dot blot reported in scientific literature (PMID 24497578). Use in immunoprecipitation reported in scientific literature (PMID 28198010). Knockdown validation (Wolf et al). Use in immunoblotting reported in scientific literature (PMID:31727786).

Images

Immunocytochemistry/Immunofluorescence: GFP Antibody (9F9.F9) [NB600-597] - GFP-transducted 293T cells. Image from verified customer review.	
Western Blot: GFP Antibody (9F9.F9) [NB600-597] - Lane 1: Molecular Weight Markers. Lane 2: GFP. Load: 10ng per lane. Primary antibody: Ms Anti-GFP antibody at 1:1000 for overnight at 4C. Secondary antibody: Mouse HRP secondary antibody at 1:40,000 for 30 min at RT. Block: 5% BLOTTO overnight at 4C. Predicted/Observed size: 27 kDa, 27 kDa for epitope tag GFP. Other band(s): None.	

Western Blot: GFP Antibody (9F9.F9) [NB600-597] - All lanes have picogram amount recombinant GFP protein spiked into HeLa cell-derived lysates Lane 1: 64pg 2pg Lane 3: 16pg Lane 4: 8pg Lane 5: 4pg Lane 6: 2pg Lane 7: 1g Lane 8: 0pg. Primary antibody: anti-GFP monoclonal antibody at 1:400 for overnight at 4C. Secondary antibody: HRP-conjugated anti-Mouse IgG was performed at a dilution of 1:20,000 for 1h at 4C. Block: TTBS supplemented with 1% BSA for 1 h at 4C. Predicted/Observed size: 27 kDa for GFP. Other b&(s): none.	
Immunohistochemistry: GFP Antibody (9F9.F9) [NB600-597] - Used 1:5000 As referenced in: Lu S-M, Tremblay M-E` , King IL, Qi J, Reynolds HM, et al. (2011) HIV-1 Tat-Induced Microgliosis and Synaptic Damage via Interactions between Peripheral and Central Myeloid Cells. PLoS ONE 6(9): e23915. doi:10.1371/journal.pone.0023915 Image using the Biotin format of this antibody.	
Western Blot: GFP Antibody (9F9.F9) [NB600-597] - Expression of GFP in CHO-K1 cells trasfected with GFP. Image from verified customer review.	 GFP Novus NB600-597, mouse 1:3000. Lot 28856
Immunoprecipitation/Western Blot using GFP Protein. Lane 1: Opal Prestained Molecular Weight Marker	

Western blot of GFP Antibody (9F9.F9). Lane 1: Opal Prestained Molecular Weight Marker	
Western blot of Mouse Anti-GFP Antibody. Lane 1: Thermo SuperSignal Molecular Weight Marker. Lane 2: GFP protein	

Publications

Vierra NC, Dadi PK, Milian SC et al. TALK-1 channels control b cell endoplasmic reticulum Ca(2+) homeostasis. Sci Signal. 2017-09-19 [PMID: 28928238]

Barbara Schlingmann, Christian E. Overgaard, Samuel A. Molina, K. Sabrina Lynn, Leslie A. Mitchell, StevenClaude Dorsainvil White, Alexa L. Mattheyses, David M. Guidot, Christopher T. Capaldo, Michael Koval Regulation of claudin/zonula occludens-1 complexes by hetero-claudin interactions Nature Communications 2016-07-25 [PMID: 27452368]

Facci L, Bolego C, Chemello C et al. 2-Pentadecyl-2-oxazoline inhibits lipopolysaccharide-induced microglia activation interfering with TLR4 signaling Life sciences 2023-12-15 [PMID: 37952834]

Houston R, Sekine Y, Larsen MB et al. Discovery of bactericides as an acute mitochondrial membrane damage inducer Molecular Biology of the Cell 2021-11-01 [PMID: 34495738] (Immunocytochemistry/ Immunofluorescence)

Dwyer ME, Hangarter RP. Light-dependent phosphorylation of THRUMIN1 regulates its association with actin filaments and 14-3-3 proteins Plant Physiology 2021-11-03 [PMID: 34618069]

Essandoh K, Subramani A, Ferro OA et al. zDHHC9 Regulates Cardiomyocyte Rab3a Activity and Atrial Natriuretic Peptide Secretion Through Palmitoylation of Rab3gap1 JACC: Basic to Translational Science 2023-05-01 [PMID: 37325411] (Immunohistochemistry, Immunocytochemistry/ Immunofluorescence)

Dwyer ME, Hangarter RP. Light-induced displacement of PLASTID MOVEMENT IMPAIRED1 precedes light-dependent chloroplast movements Plant Physiology 2022-06-27 [PMID: 35477788]

Hartl I, Brumovska V, Striedner Y et al. Measurement of FGFR3 signaling at the cell membrane via total internal reflection fluorescence microscopy to compare the activation of FGFR3 mutants The Journal of biological chemistry 2022-12-26 [PMID: 36581204]

Essandoh K, Subramani A, Ferro O et al. zDHHC9 Regulates Cardiomyocyte Rab3a Activity and Atrial Natriuretic Peptide Secretion Through Palmitoylation of Rab3gap1 JACC: Basic to Translational Science 2023-02-01 (WB)

Phillips HL, Dai H, Choi SY et al. Dorsomedial prefrontal hypoexcitability underlies lost empathy in frontotemporal dementia Neuron 2023-01-09 [PMID: 36638803] (IHC-Fr)

Details:
Dilution used 1:1000

Pottinger SE, Bak A, Margets A et al. Optimizing the PBS1 Decoy System to Confer Resistance to Potyvirus Infection in Arabidopsis and Soybean Mol Plant Microbe Interact 2020-04-09 [PMID: 32267815]

Bowman SL, Le L, Zhu Y et al. A BLOC-1-AP-3 super-complex sorts a cis-SNARE complex into endosome-derived tubular transport carriers The Journal of cell biology 2021-07-05 [PMID: 33886957]

More publications at http://www.novusbio.com/NB600-597

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NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NB110-40670	GFP Antibody (9F9.F9) [Biotin]

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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