Product Datasheet

Luciferase Antibody - BSA Free
NB100-1677-100ug

Unit Size: 100 ug

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

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Reviews: 5 Publications: 31

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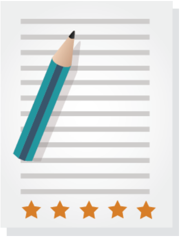
Updated 2/21/2025 v.20.1



NB100-1677-100ug

Luciferase Antibody - BSA Free

Product Information

Unit Size	100 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Multi-step
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

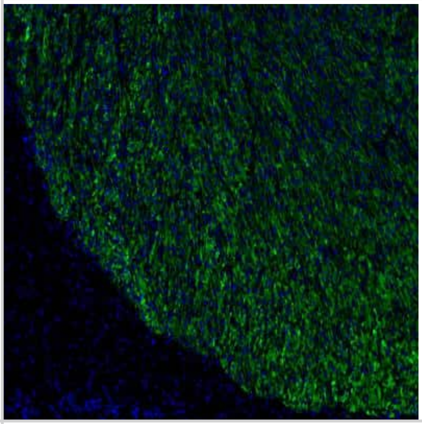
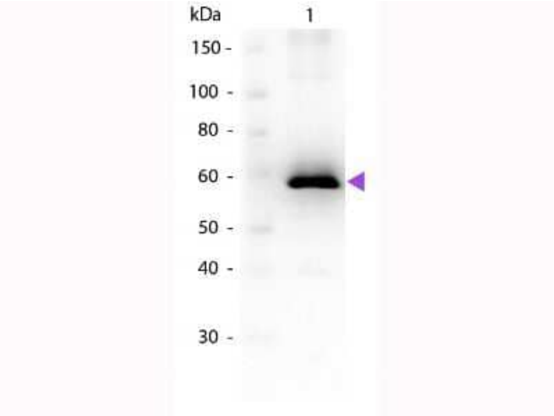
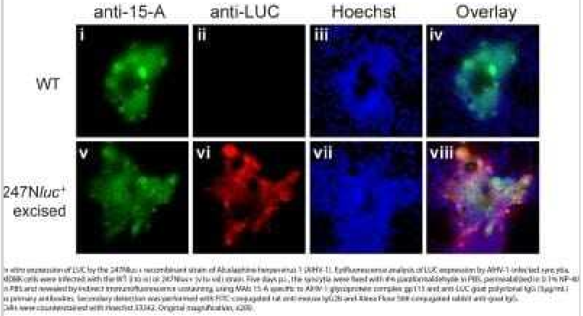
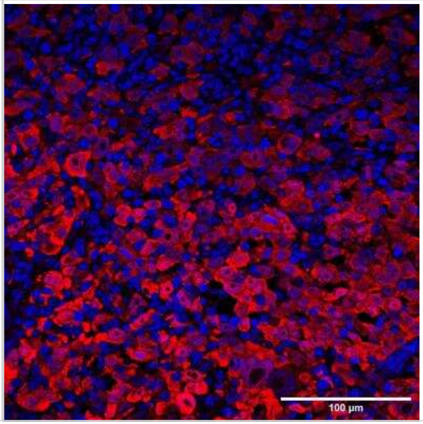
Product Description

Description	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified Luciferase [Photinus pyralis (Firefly)] Store vial 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	Goat
Species	Firefly
Reactivity Notes	No reactivity is observed against Sea pansy (Renilla reniformis) luciferase.
Specificity/Sensitivity	No reactivity is observed against Sea pansy (Renilla reniformis) luciferase.
Immunogen	Luciferase [Photinus pyralis (Firefly)]

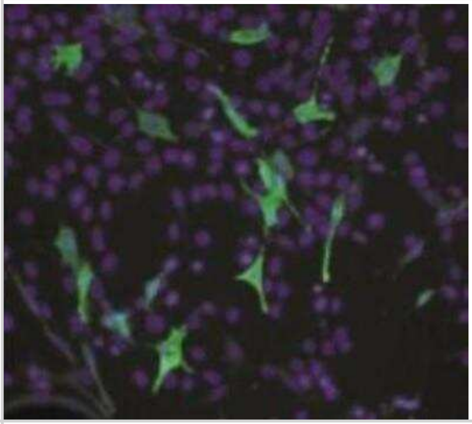
Product Application Details

Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000-1:5000, ELISA 1:200-1:1000, Immunohistochemistry 1:1000-1:5000, Immunocytochemistry/ Immunofluorescence 20 ug/ml, Immunohistochemistry-Paraffin 1:1000 - 1:5000, Immunohistochemistry-Frozen 1:1000 - 1:5000
Application Notes	This antibody has been tested in Western Blot, IHC, and ELISA. Expect a band ~60kDa in appropriate cell lysates. Although not tested, this antibody would be useful in immunofluorescence, immunoprecipitation, immunocytochemistry, and most immunological methods requiring high titers and specificity.

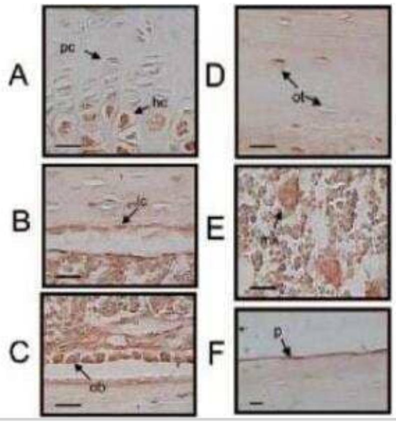
Images

Human tumor xenograft expressing firefly luciferase intracranially injected into a mouse brain. Image provided via product review by verified customer.	
Lane 1: Luciferase, 50ng.Luciferase antibody at 1:1000 overnight at 4C. Secondary antibody: Peroxidase goat secondary antibody at 1:40,000 for 30 min at RT. Block: incubated with blocking buffer for 30 min at RT. Predicted/Observed size: 60 kDa for Luciferase. Other band(s): None.	
In vitro expression of Luciferase by 247Nluc+ recombinant strain of Alcelaphine herpesvirus 1 (AIHV-1). Epifluoresence expression of Luciferase by AIHV-1 infected syncytia. MDBK cells were infected with the WT (i to iv) or 247Nluc+ (v to viii) strain. Five days p.i. the the syncytia were fixed with 4% paraformaldehyde in PBS, permeabilized in 0.1% NP-40 in PBS and revealed by indirect IF co-staining. See image for additional details. Image provided via product review by verified customer.	
Analysis of human breast tumor xenograft expressing firefly luciferase subcutaneously injected into a mouse using Luciferase antibody. Primary antibody dilution 1:200. Image from verified customer review.	

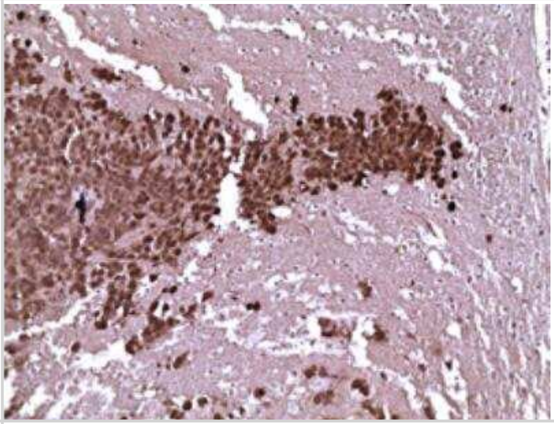
NIH3T3 cells. Cells (25,000/well) transfected with pLuc plasmid were stained with 20ug/ml NB100-1677 and 1:200 dilution of donkey anti-goat IgG-FITC (green). Cells were mounted with DAPI (blue) and visualized at 200X magnification.



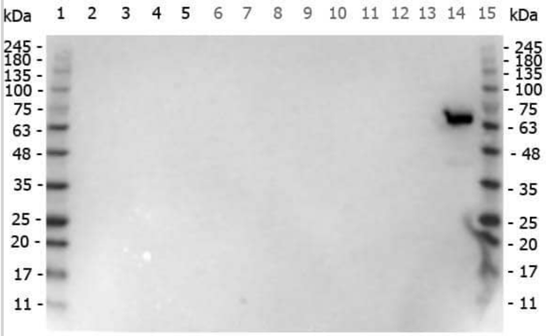
Luciferase immunostaining was analyzed in tibias from ovx ERE-luciferase mice taken 24 h after a 17-E2 injection. Positive luciferase staining was identified in hypertrophic chondrocytes (hc) (A), lining cells (lc) (B), osteoblasts (ob) (C), a subpopulation (10%) of osteocytes (ot) (upper arrow points at a positively stained osteocyte, whereas the lower depicts a negative osteocyte) (D), and megakaryocytes (E). Faint staining was found on the periosteal surface (p) (F). No background staining was seen when omitting the primary antibody (data not shown). The bar in the lower left corner represents 25 um. pc, Proliferative chondrocyte.



Luciferase expression in mouse brain tissue bearing human glioma cells expressing fire fly luciferase. Image from verified customer review.



Western Blot of Goat anti-Luciferase antibody. Lane 1 Marker: Opal Pre-stained ladder



Publications

Shaik S, Maegawa S, Haltom AR et al. REST promotes ETS1-dependent vascular growth in medulloblastoma Molecular Oncology 2021-05-01 [PMID: 33469989] (Immunohistochemistry, Immunocytochemistry/ Immunofluorescence)

Lekk I, Cabrera-Cabrera F, Turconi G et al. Untranslated regions of brain-derived neurotrophic factor mRNA control its translatability and subcellular localization Journal of Biological Chemistry 2023-02-01 [PMID: 36639028] (Immunoprecipitation, Western Blot, Block/Neutralize)

Lee SY, Oh HR, Kim YH et al. Cerenkov luminescence imaging of interscapular brown adipose tissue using a TSPO-targeting PET probe in the UCP1 ThermoMouse Theranostics 2022-08-29 [PMID: 36168637] (Immunohistochemistry)

Sullivan PM, Kumar R, Li W et al. FGFR4-Targeted Chimeric Antigen Receptors Combined with Anti-Myeloid Polypharmacy Effectively Treat Orthotopic Rhabdomyosarcoma Molecular Cancer Therapeutics 2022-10-07 [PMID: 35877472] (Immunohistochemistry, Immunocytochemistry/ Immunofluorescence)

Melamed JR, Yerneni SS, Arral ML et al. Ionizable lipid nanoparticles deliver mRNA to pancreatic ? cells via macrophage-mediated gene transfer Science Advances 2023-01-27 [PMID: 36706177] (Immunohistochemistry)

Escudero-Duch C, Mu□oz-Moreno L, Martin-Saavedra F et al. Remote control of transgene expression using noninvasive near-infrared irradiation Journal of photochemistry and photobiology. B, Biology 2023-03-22 [PMID: 36963296] (IHC)

Rogg M, Maier JI, Helmstädter M et al. A YAP/TAZ-ARHGAP29-RhoA Signaling Axis Regulates Podocyte Protrusions and Integrin Adhesions Cells 2023-07-06 [PMID: 37443829] (WB)

Details:
Dilutions: 1:1000

Morita A, Nakayama M, Wang D et al. Frequent loss of metastatic ability in subclones of Apc, Kras, Tgfbr2, and Trp53 mutant intestinal tumor organoids Cancer science 2023-04-01 [PMID: 36576236] (IHC-P)

Trieu KG, Tsai SY, Eberl M et al. Basal cell carcinomas acquire secondary mutations to overcome dormancy and progress from microscopic to macroscopic disease Cell reports 2022-05-03 [PMID: 35508126] (ICC/IF)

Lu X, Fong KW, Gritsina G et al. HOXB13 suppresses de novo lipogenesis through HDAC3-mediated epigenetic reprogramming in prostate cancer Nature genetics [PMID: 35468964] (MiAr)

Noffsinger B, Witter A, Sheybani N Et al. Technical choices significantly alter the adaptive immune response against immunocompetent murine gliomas in a model-dependent manner Journal of neuro-oncology 2021-08-25 [PMID: 34432197]

Gutierrez S, Eisenach Jc, Boada Md Seeding of breast cancer cell line (MDA-MB-231LUC+) to the mandible induces overexpression of substance P and CGRP throughout the trigeminal ganglion and widespread peripheral sensory neuropathy throughout all three of its divisions Molecular pain 2021-07-07 [PMID: 34229504] (IHC-Fr)

More publications at http://www.novusbio.com/NB100-1677

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB100-1677-100ug

HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
NBP1-48355-0.1mg	Recombinant Firefly Luciferase His Protein

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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