

Product Datasheet

beta Galactosidase Antibody - BSA Free NB600-305-0.1mg

Unit Size: 0.1 mg

Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.

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NB600-305-0.1mg

beta Galactosidase Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Reconstitution Instructions	Reconstitute with 100 ul deionized water (or equivalent)
Isotype	IgG
Purity	Multi-step
Buffer	Lyophilized from 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
Description	<p>Beta-Galactosidase Antibody 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-Rabbit Serum as well as purified and partially purified Beta Galactosidase [E.coli]</p> <p>Store vial at 4C prior to restoration. For extended storage aliquot contents and freeze at -20C or below. 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.</p>
Host	Rabbit
Species	Mouse
Reactivity Notes	Cross reactivity against beta Galactosidase from other tissues and species may occur but have not been specifically determined
Immunogen	Full length native beta Galactosidase isolated from E.coli
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:5000-1:10000, ELISA 1:10000, Immunohistochemistry 1:5000, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 1:10 - 1:500, Immunohistochemistry-Frozen 1:1500



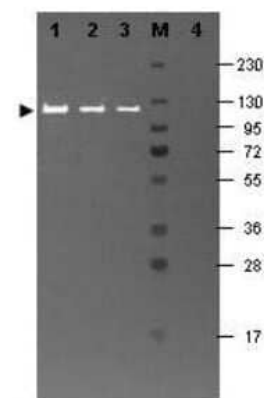
Application Notes

This product has been tested by ELISA and western blot and is suitable for dot blot, immunofluorescence microscopy, immunoprecipitation, conjugation and most immunological methods requiring high titer and specificity. The antibody recognizes both frozen tissue sections, paraffin embedded tissue and 4% paraformaldehyde fixed tissue for most immunohistochemical analysis. A 1:1,500 dilution has been reported to detect beta-galactosidase in adult rat spinal cord tissue after infection with helper-dependent adenovirus expressing lacZ. In this particular experiment, tissue was perfused with 4% paraformaldehyde and cryostat-cut (35 um) to produce free-floating sections.
 Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 23838935).

Use in Immunohistochemistry-Frozen reported in scientific literature (PMID 25799059)

Images

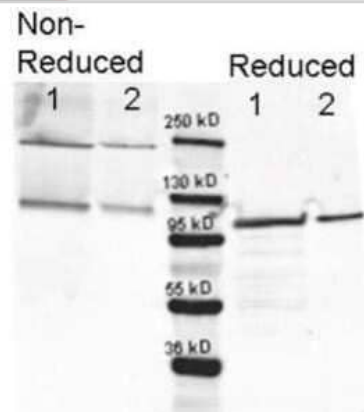
Western Blot: beta Galactosidase Antibody [NB600-305] - Analysis using FITC conjugate of NB600-305. 3) corresponding to 60 ng, 30 ng and 15 ng, respectively of b-Gal present in partially purified preparations (arrowhead). Lane 4 shows no cross reactivity with proteins present in a non-specific control E.coli lysate. Proteins were resolved on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred to nitrocellulose and blocking using Blocking Buffer for Fluorescent Western Blotting. The membrane was probed with fluorescein conjugated anti-b-Galactosidase diluted to 1:10,000. Reaction occurred for 2 hours at room temperature.



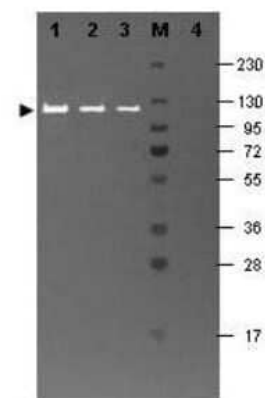
Western Blot: beta Galactosidase Antibody [NB600-305] - Analysis of a band at 117 kDa (lane 1) corresponding to b-Gal present in a partially purified preparation (arrowhead). Approximately 1 ug of protein was resolved on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred onto nitrocellulose. After blocking, the membrane was probed with the primary antibody diluted to 1:1,000. Reaction occurred overnight at 4 C followed by washes and reaction with a 1:10,000 dilution of IRDye 800 conjugated Gt-a-Rabbit IgG (H&L) MX10 for 45 min at room temperature (800 nm channel, green).



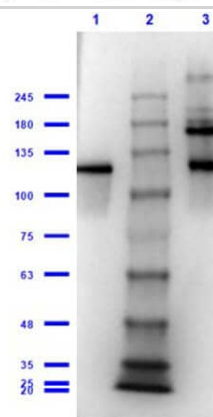
Western Blot: beta Galactosidase Antibody [NB600-305] - Lane 1 shows 80 ng and lane 2 shows 20 ng loaded onto gel. Results for non-reducing conditions of SDS-PAGE prior to transfer to nitrocellulose are shown on the left side of the figure; results obtained under reducing conditions are shown on the right. Blots were blocked overnight at 4 C with Blocking Buffer for Fluorescent Western Blotting. The membrane was probed with anti-b-Galactosidase diluted to 1:10,000. Reaction occurred overnight at 4C. Dylight649 conjugated Gt-a-anti-Rabbit IgG was used for detection.



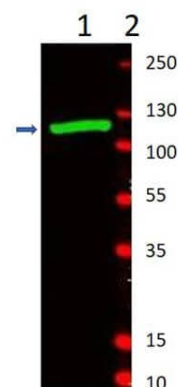
Western Blot: beta Galactosidase Antibody [NB600-305] - Shows a band at 117 kDa (lanes 1 - 3) corresponding to 60 ng, 30 ng and 15 ng, respectively of b-Gal present in partially purified preparations (arrowhead). Lane 4 shows no cross reactivity with proteins present in a non-specific control E.coli lysate. Proteins were resolved on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred to nitrocellulose and blocking using Blocking Buffer for Fluorescent Western Blotting. The membrane was probed with fluorescein conjugated anti-b-Galactosidase diluted to 1:10,000. Reaction occurred for 2 hours at room temperature.



Western Blot of Rabbit Anti-Beta-Galactosidase Antibody. Lane 1: Beta-Galactosidase Reduced [0.1ug]. Lane 2: Opal Prestained Molecular Weight Marker



Western Blot of Rabbit Anti-Beta-Galactosidase Antibody. Lane 1: partially purified preparation b-Galactosidase [1.0ug]. Lane 2: Molecular Weight Marker. Primary Antibody: Anti-Beta-Galactosidase at 1:1000 overnight at 2-8C. Secondary Antibody: Goat Anti-Rabbit IgG IRDye (R)800



Publications

Liangji Li, Michelle Rozo, Sibiao Yue, Xiaobin Zheng, Frederick Tan, Christoph Lepper, Chen-Ming Fan Muscle stem cell renewal suppressed by Gas1 can be reversed by GDNF in mice *Nature metabolism* 2019-08-13 [PMID: 32021964]

Dahlhoff M, Camera E, Schafer M et al. Sebaceous lipids are essential for water repulsion, protection against UVB-induced apoptosis, and ocular integrity in mice. *Development*. 2016-03-17 [PMID: 26989175] (IHC-Fr, Mouse)

Goldenberg-Cohen N, Guo Y, Margolis F et al. Oligodendrocyte dysfunction after induction of experimental anterior optic nerve ischemia. *Invest Ophthalmol Vis Sci* 2005-08-01 [PMID: 16043843] (Mouse)

Zhao H, Feng J, Ho TV et al. The suture provides a niche for mesenchymal stem cells of craniofacial bones. *Nat. Cell Biol.* 2015-04-01 [PMID: 25799059] (IHC-Fr, Mouse)

Spaeth EL, Labaff AM, Toole BP et al. Mesenchymal CD44 Expression Contributes to the Acquisition of an Activated Fibroblast Phenotype via TWIST Activation in the Tumor Microenvironment. *Cancer Res.* 2013-09-01 [PMID: 23838935] (IF/IHC, ICC/IF, Mouse)

Sharpe, E E, III, Teleron, A A, Li, B, Price, J, Ss, M S, Alford, K, Young, P P. The Origin in Vivo Significance of Murine Human Culture-Exped Endothelial Progenitor Cells, . 168, 1710-1721. 2006-01-01 [PMID: 16651636]

Condon, J et al. Surfactant protein secreted by the maturing mouse fetal lung acts as a hormone that signals the initiation of parturition. *PNAS* 101:4978-4983. 2004-01-01 [PMID: 15044702] (WB, IF/IHC, Mouse)

Farmen, SL et al. Gene transfer of CFTR to airway epithelia: low levels of expression are sufficient to correct Cl-transport overexpression can generate basolateral CFTR. *Am. J. Physiol. Lung Cell Mol. Physiol.* 289:L1123-L1130. 2005-01-01 [PMID: 12798297]

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Strankelnberg M et al. *rst* its paralogue *kirre* act redundantly during embryonic muscle development in *Drosophila*. *Development* 128:4229-39. 2001-01-01 [PMID: 11684659]

Li B, Sharpe E E, Maupin A B, et al. FJ EXPRESS: VEGF PIGF promote adult vasculogenesis by enhancing EPC recruitment vessel formation at the site of tumor neovascularization. *FASEB J*, 20: 1495-1497. 2006-01-01 [PMID: 16754748]

Li B, Pozzi A, Young PP. TNF{alpha} Accelerates Monocyte to Endothelial Transdifferentiation in Tumors by the Induction of Integrin {alpha}5 Expression and Adhesion to Fibronectin. *Mol Cancer Res*;9(6):702-11. 2011-06-01 [PMID: 21536688]





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 NB600-305-0.1mg

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-62407	beta Galactosidase Native 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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