

Product Datasheet

Galectin-3 Antibody (A3A12) - BSA Free NB300-538

Unit Size: 100 ug

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

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NB300-538

Galectin-3 Antibody (A3A12) - BSA Free

Product Information	
Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	A3A12
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	26 kDa

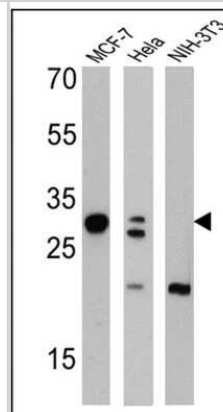
Product Description	
Description	Novus Biologicals Mouse Galectin-3 Antibody (A3A12) - BSA Free (NB300-538) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-Galectin-3 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3958
Gene Symbol	LGALS3
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Rabbit reactivity reported in scientific literature (PMID: 19744479). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	Galectin 3 (A3A12)
Immunogen	Full length recombinant human galectin-3.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1 ug/ml, Flow Cytometry, ELISA 1:100 - 1:2000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 6 ug/ml, Immunohistochemistry-Frozen 6 ug/ml

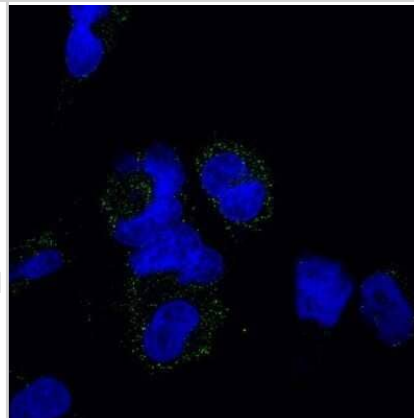


Images

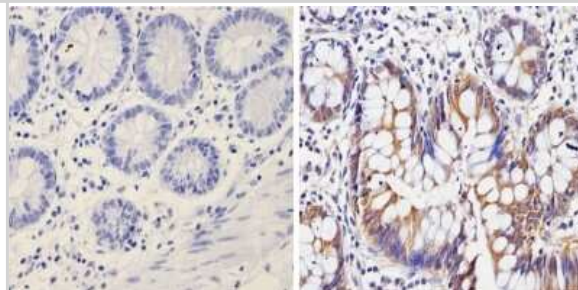
Western Blot: Galectin-3 Antibody (A3A12) [NB300-538] - Analysis of 25 ug of MCF-7 (Lane 1), HeLa (Lane 2), and NIH-3T3 cell lysates (Lane 3) and a molecular weight protein ladder.



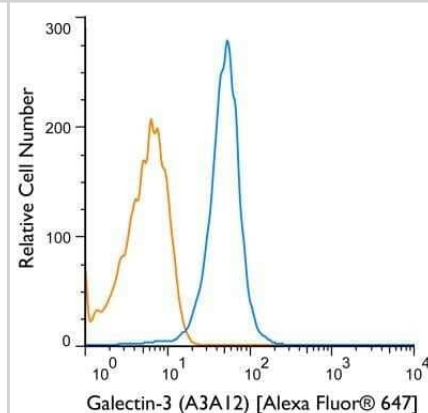
Immunocytochemistry/Immunofluorescence: Galectin-3 Antibody (A3A12) [NB300-538] - LLOMe treatment results in lysosomal damage in T98G glioblastoma cells as evidenced by the accumulation of galectin-3 positive vesicles. T98G cells were treated with LLOMe (1 uM) for 1 h to induce lysosomal damage. Cells were fixed (4% paraformaldehyde) 6 h after washout, blocked with 10% goat serum in 0.1% PBST (1 h, RT), stained with DyLight 488 conjugated galectin-3 antibody (green) (overnight, 4C). The following day, samples were washed with cold PBST, mounted using Prolong Gold mountant with DAPI (blue). Confocal immunofluorescence using DyLight 488 conjugated galectin-3 antibody. This image was submitted via customer Review. Image using the DyLight 488 form of this antibody.



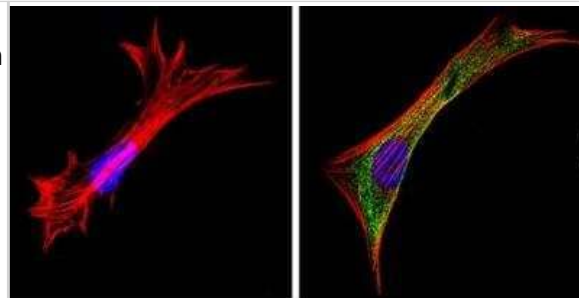
Immunohistochemistry-Paraffin: Galectin-3 Antibody (A3A12) [NB300-538] - Analysis showing positive staining in the nucleus and cytoplasm of Human colon tissue (right) compared with a negative control in the absence of primary antibody (left).



Flow Cytometry: Galectin-3 Antibody (A3A12) [NB300-538] - Using the Alexa Fluor 647 direct conjugate An intracellular stain was performed on HT-29 cells with Galectin-3 (A3A12) antibody NB300-538AF647 (blue) and a matched isotype control NBP1-97005AF647 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.

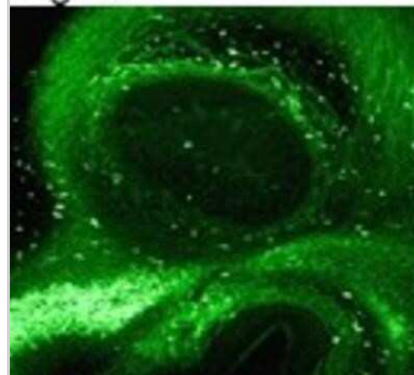


Immunocytochemistry/Immunofluorescence: Galectin-3 Antibody (A3A12) [NB300-538] - Analysis of Galectin 3 (green) showing staining in the cytoplasm and nucleus of NIH-3T3 cells.

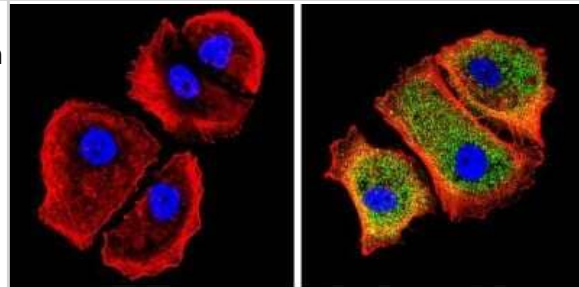


Immunocytochemistry/Immunofluorescence: Galectin-3 Antibody (A3A12) [NB300-538] - Analysis of rat olfactory bulb

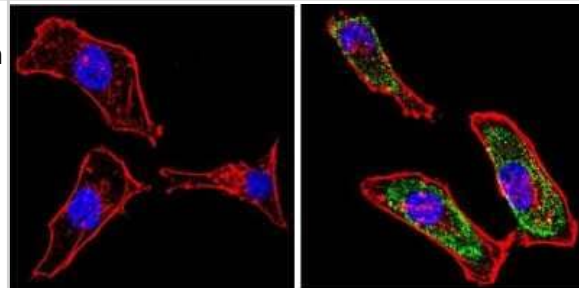
Fig. 1



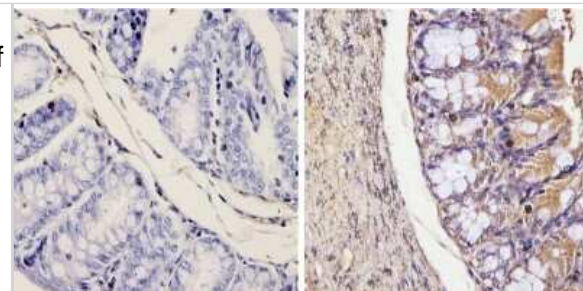
Immunocytochemistry/Immunofluorescence: Galectin-3 Antibody (A3A12) [NB300-538] - Analysis of Galectin 3 (green) showing staining in the cytoplasm and nucleus of MCF-7 cells.



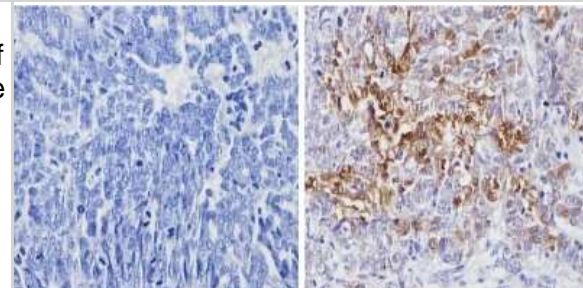
Immunocytochemistry/Immunofluorescence: Galectin-3 Antibody (A3A12) [NB300-538] - Analysis of Galectin 3 (green) showing staining in the cytoplasm and nucleus of HeLa cells.



Immunohistochemistry-Paraffin: Galectin-3 Antibody (A3A12) [NB300-538] - Analysis showing positive staining in the nucleus and cytoplasm of Mouse colon tissue (right) compared with a negative control in the absence of primary antibody (left).



Immunohistochemistry-Paraffin: Galectin-3 Antibody (A3A12) [NB300-538] - Analysis showing positive staining in the nucleus and cytoplasm of Human ovarian carcinoma (right) compared with a negative control in the absence of primary antibody (left).



Publications

Sun YC, Hung KF, Li TY Et al. Transmembrane Mucin 1 Blocks Fluorescein Ingress to Corneal Epithelium Invest Ophthalmol Vis Sci 2022-02-25 [PMID: 35212722] (FLOW, IHC-Fr, Human, Rabbit)

Details:

Citation using the Biotin version of this antibody.

Khan N, Halcrow PW, Afghah Z et al. HIV-1 Tat endocytosis and retention in endolysosomes affects HIV-1 Tat-induced LTR transactivation in astrocytes FASEB journal : official publication of the Federation of American Societies for Experimental Biology 2022-03-01 [PMID: 35113458]

Ozbek M, Oztop M Expression Patterns of Galectin-1 and Galectin-3 in Hibernating Anatolian Ground Squirrel (Spermophilus Xanthopyrmnus) Gastrointestinal Tract Kocatepe Veterinary Journal 2020-02-23

Staels B, Rubenstrunk A, Noel B et al. Hepato-protective effects of the dual PPARalpha/delta agonist GFT505 in rodent models of NAFLD/NASH. Hepatology 2013-05-22 [PMID: 23703580] (IHC-P, Mouse)

Liu FT, Hsu DK, Zuberi RI, Hill PN, Shenhav A, Kuwabara I, Chen SS. Modulation of functional properties of galectin-3 by monoclonal antibodies binding to the non-lectin domains. This antibody has been used in: Biochemistry, 35: 6073-6079. 1996-01-01 [PMID: 8634249]



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 NB300-538

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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