Product Datasheet

O-GlcNAc Antibody (RL2) [Alexa Fluor® 647]
NB300-524AF647

Unit Size: 0.1 ml

Store at 4C in the dark.

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Reviews: 1 Publications: 2

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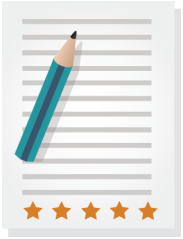
Updated 10/23/2024 v.20.1



NB300-524AF647

O-GlcNAc Antibody (RL2) [Alexa Fluor® 647]

Product Information

Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	RL2
Preservative	0.05% Sodium Azide
Isotype	IgG1
Conjugate	Alexa Fluor 647
Purity	Protein A purified
Buffer	50mM Sodium Borate

Product Description

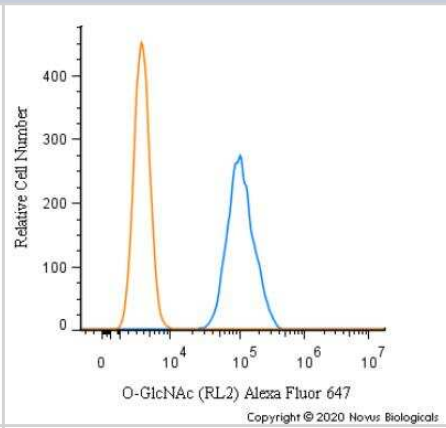
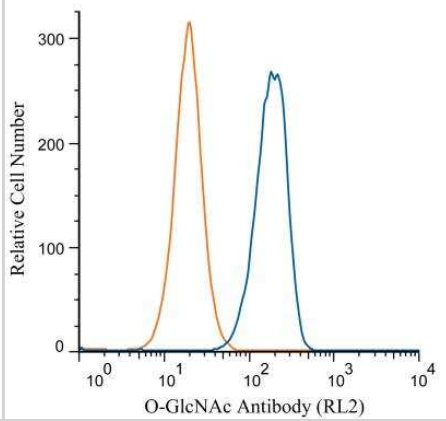
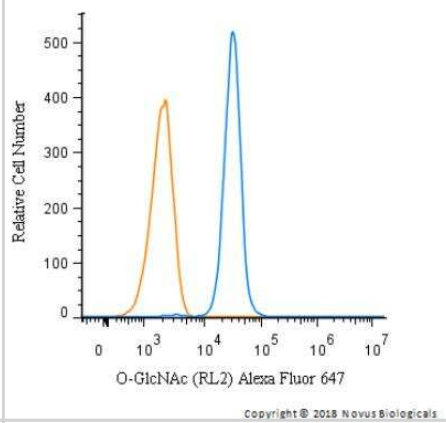
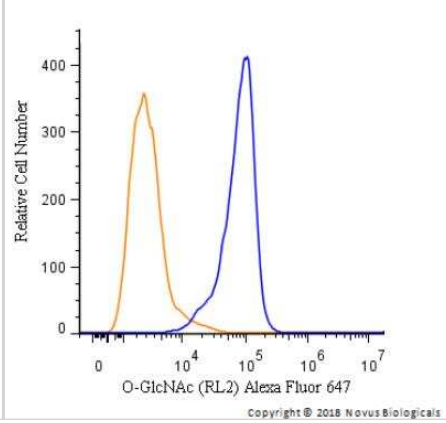
Host	Mouse
Species	Human, Mouse, Rat, Porcine, Bovine, Drosophila, Fish, Hamster, Primate, Virus, Xenopus
Reactivity Notes	Porcine reactivity reported in scientific literature (PMID: 26004176). Xenopus reactivity reported in scientific literature (PMID: 17329255). Please note that this antibody is reactive 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	Detects nuclear pore complex (NPC), cytoplasmic and intranuclear O-linked glycoproteins from human, mouse, and rat tissues.
Immunogen	Pore complex-lamina fraction purified from rat liver nuclear envelopes.
Notes	Alexa Fluor (R) products are provided under an intellectual property license from Life Technologies Corporation. The purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment; (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com. This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.

Product Application Details

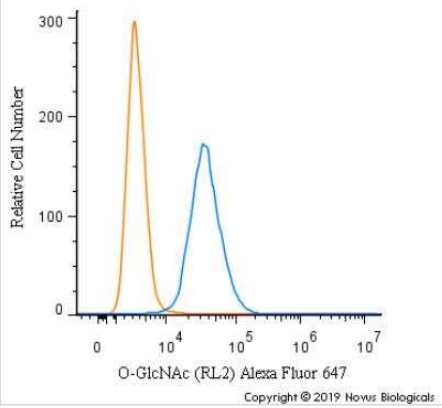
Applications	Western Blot, Chromatin Immunoprecipitation, Dot Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)

Recommended Dilutions	Western Blot, Chromatin Immunoprecipitation, Flow Cytometry, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Dot Blot, Chromatin Immunoprecipitation (ChIP)
Application Notes	Optimal dilution of this antibody should be experimentally determined.

Images

Flow Cytometry: O-GlcNAc Antibody (RL2) [Alexa Fluor® 647] [NB300-524AF647] - An intracellular stain was performed on RH30 cells with O-GlcNAc [RL2] Antibody NB300-524AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.	
Flow Cytometry: O-GlcNAc Antibody (RL2) [Alexa Fluor (R) 647] [NB300-524AF647] - An intracellular stain was performed on Jurkat cells with O-GlcNAc antibody (RL2) NB300-524 (blue) and a matched isotype control NBP2-27287 (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. 1 ug of antibody was added to 100 uL of staining buffer and cells were incubated for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.	
Flow Cytometry: O-GlcNAc Antibody (RL2) [Alexa Fluor® 647] [NB300-524AF647] - An intracellular stain was performed on SK-MEL-28 cells with O-GlcNAc antibody (RL2) NB300-524AF647 (blue) and a matched isotype control. Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature . Both antibodies were conjugated to Alexa Fluor 647.	
Flow Cytometry: O-GlcNAc Antibody (RL2) [Alexa Fluor® 647] [NB300-524AF647] - An intracellular stain was performed on HeLa cells with O-GlcNAc Antibody [RL2] Antibody NB300-524AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.	

Flow Cytometry: O-GlcNAc Antibody (RL2) [Alexa Fluor® 647] [NB300-524AF647] - An intracellular stain was performed on Neuro2a cells with O-GlcNAc Antibody [RL2] NB300-524AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



Publications

J Martinez-F, L Wang, E Pohler, A Cozzani, S Wilmes, M Kazemian, S Mitra, I Moraga CDK8 Fine-Tunes IL-6 Transcriptional Activities by Limiting STAT3 Resident Time at the Gene Loci Cell Reports, 2020-12-22;33(12):108545. 2020-12-22 [PMID: 33357429]

Swamy M, Pathak S, Grzes K et al. Glucose and glutamine fuel protein O-GlcNAcylation to control T cell self-renewal and malignancy. Nat Immunol. 2016-06-17 [PMID: 27111141] (FLOW, Mouse)

Details:
This publication used the AF647 conjugated form of this antibody (NB300-524AF647)

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Products Related to NB300-524AF647

NBP1-97005AF647	Mouse IgG1 Isotype Control (MG1) [Alexa Fluor® 647]
NB300-524AF700	O-GlcNAc Antibody (RL2) [Alexa Fluor® 700]

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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