Product Datasheet

IGF-II R/IGF2R Antibody (2G11) - BSA Free
NB300-514SS

Unit Size: 0.025 ml

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

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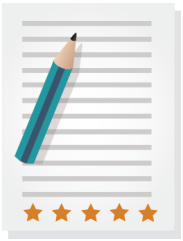
Updated 10/23/2024 v.20.1



NB300-514SS

IGF-II R/IGF2R Antibody (2G11) - BSA Free

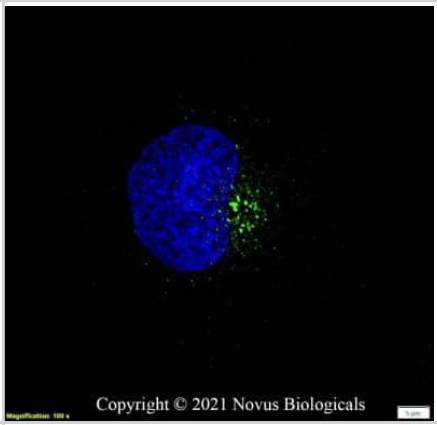
Product Information	
Unit Size	0.025 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2G11
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A purified
Buffer	PBS

Product Description	
Host	Mouse
Gene ID	3482
Gene Symbol	IGF2R
Species	Human, Mouse, Rat, Bovine, Primate
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 9119492). Does not react with Chinese hamster ovary cell Mannose 6 Phosphate Receptor (PMID: 8163521).
Marker	Late Endosome Marker
Immunogen	Purified bovine Mannose 6 Phosphate Receptor (Cation independent) [UniProt# P08169]

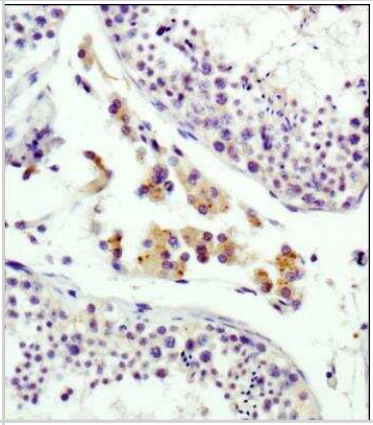
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1 ug/ml, Flow Cytometry 1 ug per million cells, ELISA, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:10-1:250, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:100, CyTOF-ready
Application Notes	By Western Blot, a 300 kDa protein representing Mannose 6 Phosphate Receptor is seen in HeLa cell extract under non-reducing conditions. Immunofluorescence staining of Mannose 6 Phosphate Receptor in HeLa cells with this antibody results in perinuclear staining. This antibody is also useful in Flow Cytometry, Immunoprecipitation, ELISA and Immunohistochemistry-on paraffin embedded sections. This antibody is CyTOF ready.

Images

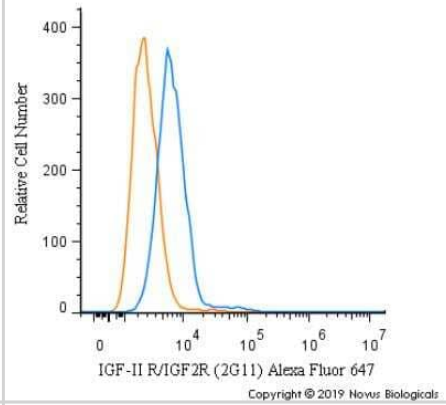
Immunocytochemistry/Immunofluorescence: IGF-II R/IGF2R Antibody (2G11) [NB300-514] - HeLa cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-IGF-II R/IGF2R Antibody (2G11) NB300-514 at 1 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



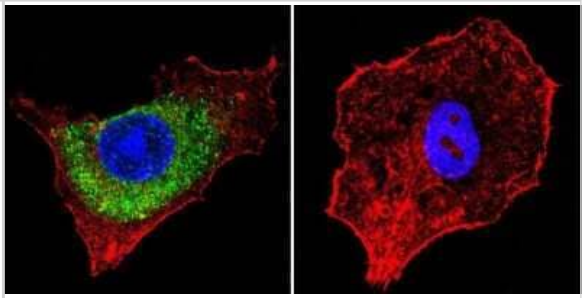
Immunohistochemistry: Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) [NB300-514] - Staining of human testis using NB300-514 antibody at 1:100.



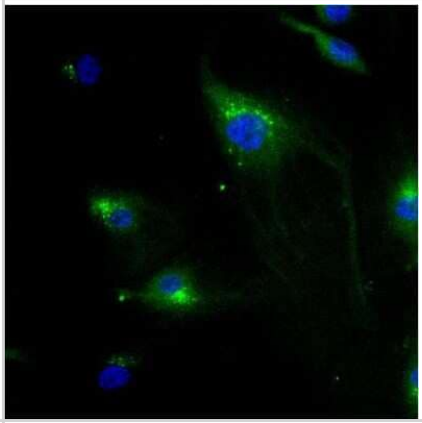
Flow Cytometry: IGF-II R/IGF2R Antibody (2G11) [NB300-514] - An intracellular stain was performed on MCF7 cells with IGF-II R/IGF2R [2G11] Antibody NB300-514AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



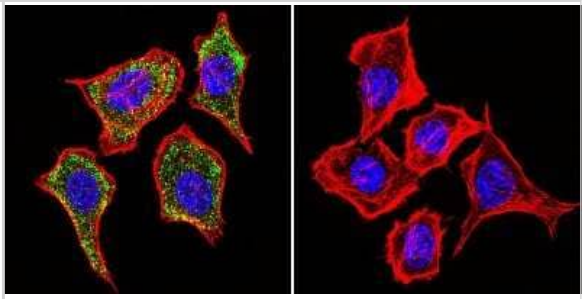
Immunocytochemistry/Immunofluorescence: Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) [NB300-514] - Mannose 6-Phosphate Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Mannose 6-Phosphate Receptor at a dilution of 1:20 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



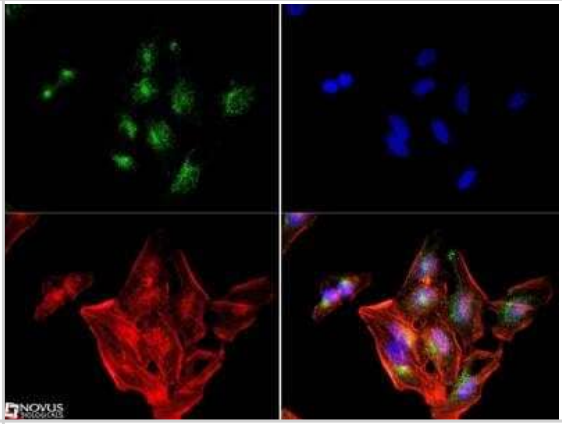
Immunocytochemistry/Immunofluorescence: Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) [NB300-514] - HMVEC Cells



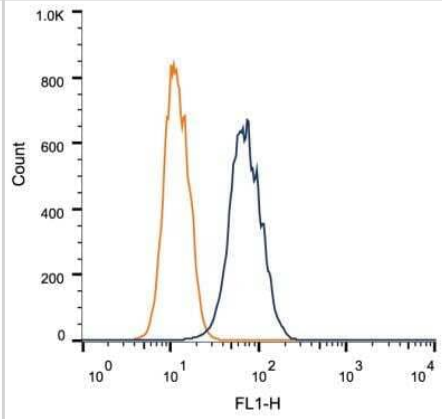
Immunocytochemistry/Immunofluorescence: Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) [NB300-514] - Staining in Hela Cells. Mannose 6-Phosphate Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Mannose 6-Phosphate Receptor at a dilution of 1:20 over night at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody.



Immunocytochemistry/Immunofluorescence: IGF-II R/Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) [NB300-514] - Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) [NB300-514] - Mannose 6 Phosphate Receptor (Cation independent) antibody (2G11) was tested at (1:250) in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight-550 (red).



Flow Cytometry: Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) [NB300-514] - Intracellular flow cytometric staining of 1 x 10^6 MCF-7 cells using Mannose 6 Phosphate Receptor antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 ug/1x10^6 cells was used.



Publications

Wang Q, Tao C, Hannan A et al. Lacrimal gland budding requires PI3K-dependent suppression of EGF signaling Science Advances 2021-07-02 [PMID: 34193412] (Immunohistochemistry, Immunohistochemistry-Frozen)

Calcagni' A, Staiano L, Zampelli N et al. Loss of the batten disease protein CLN3 leads to mis-trafficking of M6PR and defective autophagic-lysosomal reformation Nature communications 2023-07-03 [PMID: 37400440] (ICC/IF, FLOW)

Aguilar-GonzAlez A, GonzAlez-Correa JE, Barriocanal-Casado E et al. Isogenic GAA-KO Murine Muscle Cell Lines Mimicking Severe Pompe Mutations as Preclinical Models for the Screening of Potential Gene Therapy Strategies International journal of molecular sciences 2022-06-04 [PMID: 35682977] (FLOW, Mouse)

Muzio L, Sirtori R, Gornati D et al. Retromer stabilization results in neuroprotection in a model of Amyotrophic Lateral Sclerosis Nat Commun 2020-07-31 [PMID: 32737286] (IF/IHC, Mouse)

Kakegawa W, Katoh A, Narumi S et al. Optogenetic Control of Synaptic AMPA Receptor Endocytosis Reveals Roles of LTD in Motor Learning Neuron 2018-08-08 [PMID: 30122381] (ICC/IF, Mouse)

Takahashi K, Mashima H, Miura K et al. Disruption of Small GTPase Rab7 Exacerbates the Severity of Acute Pancreatitis in Experimental Mouse Models. Sci Rep. 2017-06-06 [PMID: 28588238] (IF/IHC, WB, Mouse)

Barker LP, George KM, Falkow S, Small PL. Differential trafficking of live and dead Mycobacterium marinum organisms in macrophages. Infect Immun. 1997-04-01 [PMID: 9119492] (ICC/IF, Mouse)

Ganley IG, Carroll K, Bittova L, Pfeffer S. Rab9 GTPase regulates late endosome size and requires effector interaction for its stability. Mol Biol Cell. 2004-12-01 [PMID: 15456905] (ICC/IF, WB, Human)

Arighi CN, Hartnell LM, Aguilar RC et al. Role of the mammalian retromer in sorting of the cation-independent mannose 6-phosphate receptor. J Cell Biol. 2004-04-01 [PMID: 15078903] (ICC/IF, Human)

Valdez AC, Cabaniols JP, Brown MJ, Roche PA. Syntaxin 11 is associated with SNAP-23 on late endosomes and the trans-Golgi network. J Cell Sci. 1999-03-01 [PMID: 10036234] (ICC/IF, Human)

Heinzen RA, Scidmore MA, Rockey DD, Hackstadt T. Differential interaction with endocytic and exocytic pathways distinguish parasitophorous vacuoles of Coxiella burnetii and Chlamydia trachomatis. Infect Immun. 1996-03-01 [PMID: 8641784] (ICC/IF, Human)

Dintzis SM et al. Receptor extracellular domains may contain trafficking information. Studies of the 300-kDa mannose 6-phosphate receptor. J Biol Chem 269:12159-66. 1994-01-01 [PMID: 8163521]

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