

Product Datasheet

GR/NR3C1 Antibody (BuGR2) - BSA Free NB300-731

Unit Size: 100 ug

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

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NB300-731

GR/NR3C1 Antibody (BuGR2) - BSA Free

Product Information	
Unit Size	100 ug
Concentration	LYOPH mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	BuGR2
Preservative	0.05% Sodium Azide
Reconstitution Instructions	Reconstitute with 0.1 ml sterilized water to desired concentration.
Isotype	IgG2a
Purity	Protein A purified
Buffer	PBS (pH 7.2)

Product Description	
Description	Novus Biologicals Mouse GR/NR3C1 Antibody (BuGR2) - BSA Free (NB300-731) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF, IP and ChIP. Anti-GR/NR3C1 Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2908
Gene Symbol	NR3C1
Species	Human, Mouse, Rat, Guinea Pig, Rabbit, Sheep, Yeast
Reactivity Notes	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	Using enzymatic digestion analysis, has been shown to react with the undigested 97 kDa GR, a 17 kDa DNA-binding trypsin fragment, and a 45 kDa steroid- and DNA-binding chymotrypsin fragment.
Immunogen	Partially purified rat GR.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Gel Super Shift Assays, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Block/Neutralize, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 5 ug/mL, Flow Cytometry 1:10 - 1:1000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 5 ug/mL, Gel Super Shift Assays 1:10 - 1:100, Chromatin Immunoprecipitation (ChIP) 1:10-1:500, Block/Neutralize
Application Notes	Blocking, ChIP, and ELISA usages were reported in scientific literature. Use in ICC/IF was reported in scientific literature (PMID: 30402116)

Images

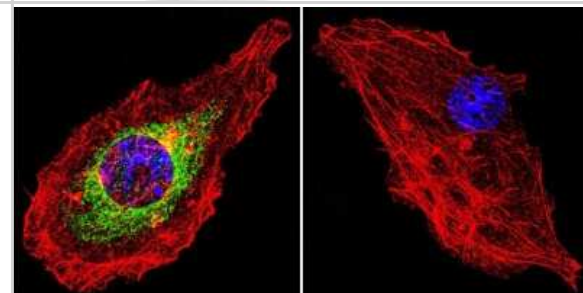
Western Blot: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of glucocorticoid receptor on mouse liver extract.

Fig .1

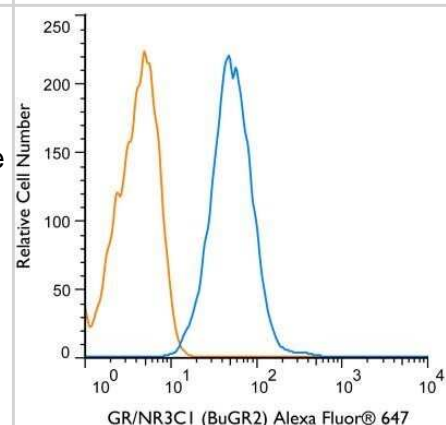
200 kDa-
92 kDa-
69 kDa



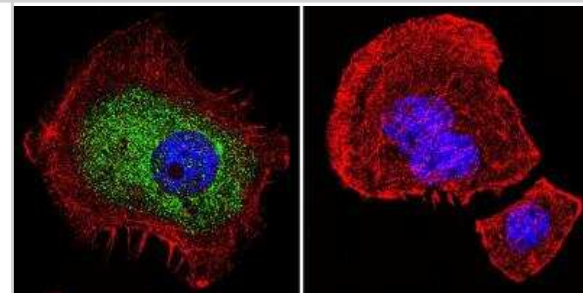
Immunocytochemistry/Immunofluorescence: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of Glucocorticoid Receptor using Glucocorticoid Receptor Monoclonal Antibody (BuGR2) shows staining in U251 Cells. Glucocorticoid Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) 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 Glucocorticoid Receptor at a dilution of 1:100 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



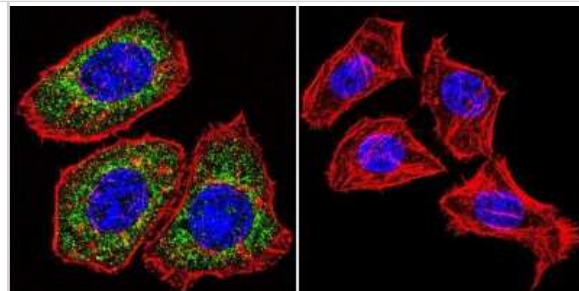
Flow Cytometry: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Using the Alexa Fluor 647 direct conjugate An intracellular stain was performed on HeLa cells with GR/NR3C1 (BuGR2) antibody NB300-731AF647 (blue) and a matched isotype control NB600-986AF647 (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 2 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



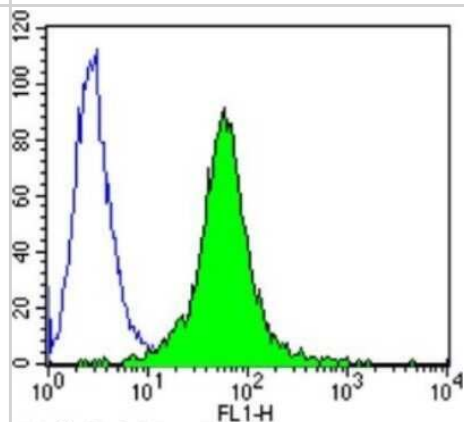
Immunocytochemistry/Immunofluorescence: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of Glucocorticoid Receptor using Glucocorticoid Receptor Monoclonal Antibody (BuGR2) shows staining in A549 Cells. Glucocorticoid Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) 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 Glucocorticoid Receptor at a dilution of 1:100 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



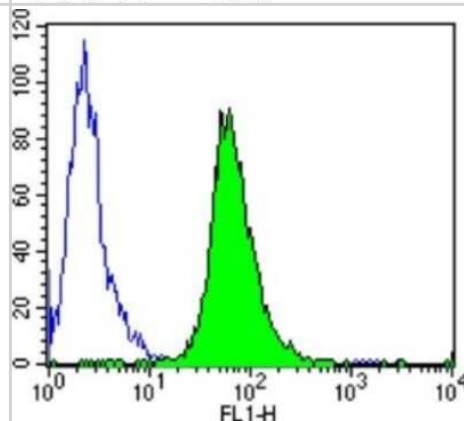
Immunocytochemistry/Immunofluorescence: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of Glucocorticoid Receptor using Glucocorticoid Receptor Monoclonal Antibody (BuGR2) shows staining in HeLa Cells. Glucocorticoid Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) 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 Glucocorticoid Receptor at a dilution of 1:100 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



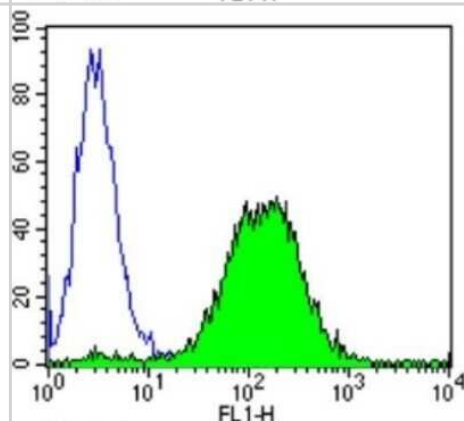
Flow Cytometry: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of GR in Jurkat cells compared to an isotype control (blue).



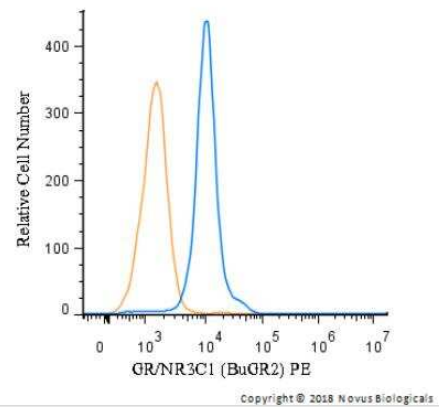
Flow Cytometry: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of Glucocorticoid Receptor in NIH/3T3 cells compared to an isotype control (blue).



Flow Cytometry: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of Glucocorticoid Receptor in HeLa cells compared to an isotype control (blue).



Flow Cytometry: GR/NR3C1 Antibody (BuGR2) [NB300-731] - An intracellular stain was performed on Jurkat cells with GR/NR3C1 (BuGR2) antibody NB300-731PE (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 Phycoerthrin.



Publications

Rudak PT, Choi J, Parkins KM et al. Chronic stress physically spares but functionally impairs innate-like invariant T cells *Cell Rep* 2021-04-14 [PMID: 33852855]

Details:

Citation using the PE format of this antibody.

Adams RCM, Smith C. In utero Exposure to Maternal Chronic Inflammation Transfers a Pro-Inflammatory Profile to Generation F2 via Sex-Specific Mechanisms *Front Immunol.* [PMID: 32117231] (ICC/IF, Mouse)

Roh Kyung-Baeg, Park Deokhoon, Jung Eunsun et al Inhibitory Effects of *Prunella vulgaris* L. Extract on 11 beta-HSD1 in Human Skin Cells. *Evid Based Complement Alternat Med.* 2018-10-04 [PMID: 30402116] (ICC/IF, Human)

Details:

Citation using the PE version of this antibody.

Adams R, Smith C Chronic Gestational Inflammation: Transfer of Maternal Adaptation over Two Generations of Progeny Mediators of Inflammation Aug 25 2019 12:00AM [PMID: 31582905] (Flow, Mouse) Chronic Gestational Inflammation: Transfer of Maternal Adaptation over Two Generations of Progeny. *Mediators Inflamm.* 2019-08-25 [PMID: 31582905] (FLOW, Mouse)

Details:

Citation using the Alexa Fluor 647 version of this antibody.

Taves MD, Mittelstadt PR, Presman DM et al. Single-Cell Resolution and Quantitation of Targeted Glucocorticoid Delivery in the Thymus *Cell Rep* 2019-03-26 [PMID: 30917317] (Mouse)

Rue L, Banez-Coronel M, Creus-Muncunill J et al. Targeting CAG repeat RNAs reduces Huntington's disease phenotype independently of huntingtin levels. *J. Clin. Invest.* 2016-11-01 [PMID: 27721240] (WB, Mouse)

Wu JN, Pinello L, Yissachar E et al. Functionally distinct patterns of nucleosome remodeling at enhancers in glucocorticoid-treated acute lymphoblastic leukemia. *Epigenetics Chromatin* 2015-01-01 [PMID: 26633995] (Chemotaxis)

Schoenfelder Y, Hiemke C, Schmitt U. Behavioural consequences of p-glycoprotein deficiency in mice, with special focus on stress-related mechanisms. *J Neuroendocrinol* 2012-05-01 [PMID: 22339976] (Mouse)

Viegas LR, Vicent GP, Baranao JL et al. Steroid hormones induce bcl-X gene expression through direct activation of distal promoter P4. *J Biol Chem.* 2004-03-01 [PMID: 14679196]

Harrell JM, Murphy PJ, Morishima Y et al. Evidence for glucocorticoid receptor transport on microtubules by dynein. *J Biol Chem.* 2004-12-01 [PMID: 15485845]

Lambert JR, Nordeen SK. CBP recruitment and histone acetylation in differential gene induction by glucocorticoids and progestins. *Mol Endocrinol.* 2003-06-01 [PMID: 12637584]

Hutchison KA, Dittmar KD, Pratt WB et al. All of the factors required for assembly of the glucocorticoid receptor into a functional heterocomplex with heat shock protein 90 are preassociated in a self-sufficient protein folding structure, a "foldosome". *J Biol Chem.* 1994-11-01 [PMID: 7961721]





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Products Related to NB300-731

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]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

Limitations

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