

# 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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Updated 10/23/2024 v.20.1

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**NB300-731**

GR/NR3C1 Antibody (BuGR2) - BSA Free

**Product Information**

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

**Product Description**

|                                |   |
|--------------------------------|---|
| <b>Host</b>                    | Mouse   |
| <b>Gene ID</b>                 | 2908  |
| <b>Gene Symbol</b>             | NR3C1   |
| <b>Species</b>                 | Human, Mouse, Rat, Guinea Pig, Rabbit, Sheep, Yeast   |
| <b>Reactivity Notes</b>        | 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. |
| <b>Specificity/Sensitivity</b> | 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.  |
| <b>Immunogen</b>               | Partially purified rat GR.  |

**Product Application Details**

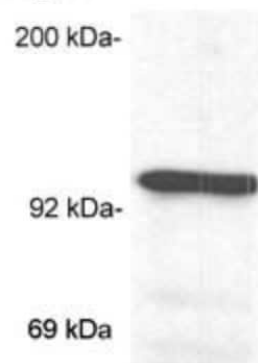
|                              |   |
|------------------------------|---|
| <b>Applications</b>          | Western Blot, Flow Cytometry, Gel Super Shift Assays, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Block/Neutralize, Chromatin Immunoprecipitation (ChIP)  |
| <b>Recommended Dilutions</b> | 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 |
| <b>Application Notes</b>     | Blocking, ChIP, and ELISA usages were reported in scientific literature. Use in ICC/IF was reported in scientific literature (PMID: 30402116)   |



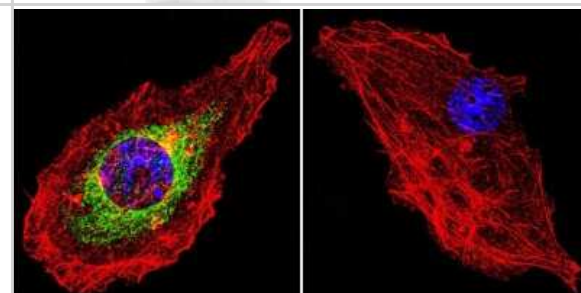
## Images

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

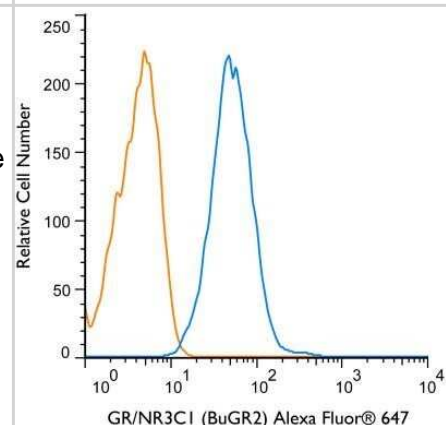
Fig .1



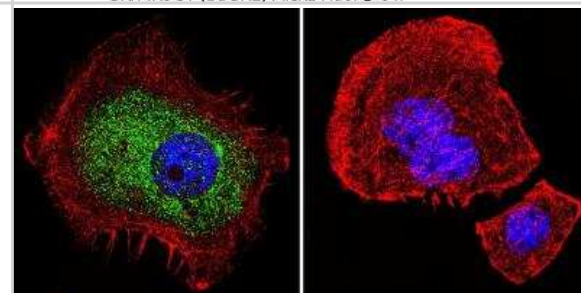
Immunocytochemistry/Immunofluorescence: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of Glucocorticoid Receptor using Glucocorticoid Receptor Monoclonal Antibody (BuGR2) shows staining in U251 Cells. Glucocorticoid Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) 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.



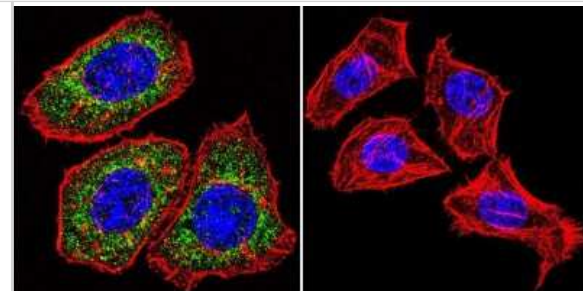
Flow Cytometry: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Using the Alexa Fluor 647 direct conjugate An intracellular stain was performed on HeLa cells with GR/NR3C1 (BuGR2) antibody NB300-731AF647 (blue) and a matched isotype control NB600-986AF647 (orange). Cells were fixed with 4% PFA and then permeabilized 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.



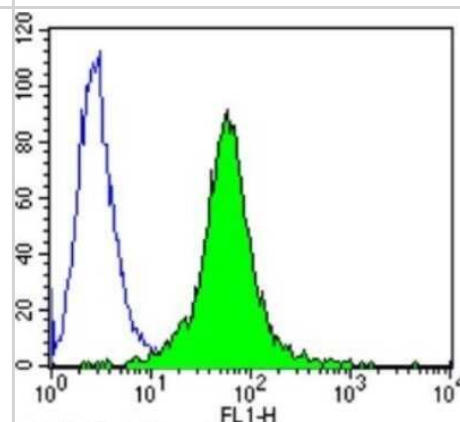
Immunocytochemistry/Immunofluorescence: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of Glucocorticoid Receptor using Glucocorticoid Receptor Monoclonal Antibody (BuGR2) shows staining in A549 Cells. Glucocorticoid Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) 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.



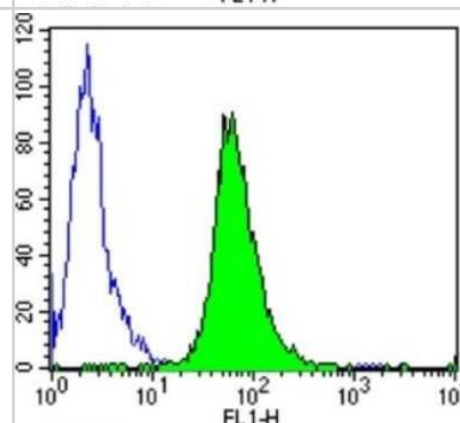
Immunocytochemistry/Immunofluorescence: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of Glucocorticoid Receptor using Glucocorticoid Receptor Monoclonal Antibody (BuGR2) shows staining in HeLa Cells. Glucocorticoid Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) 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.



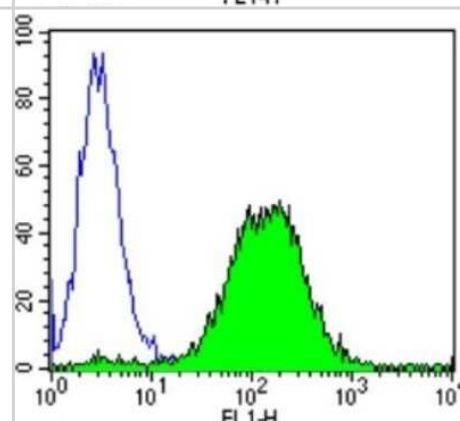
Flow Cytometry: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of GR in Jurkat cells compared to an isotype control (blue).



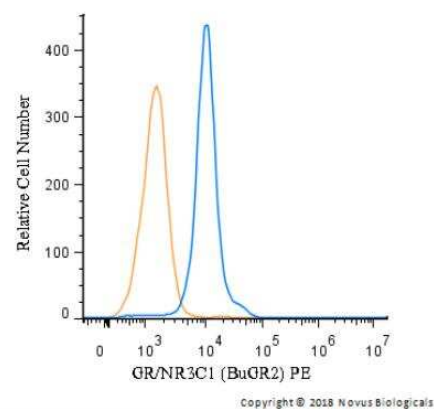
Flow Cytometry: GR/NR3C1 Antibody (BuGR2) [NB300-731] - Analysis of Glucocorticoid Receptor in NIH/3T3 cells compared to an isotype control (blue).



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**

|             |   |
|-------------|---|
| HAF007      | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B     | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-96778  | Mouse IgG2a Isotype Control (M2A)                       |
| NB300-731PE | GR/NR3C1 Antibody (BuGR2) [PE]                          |

### **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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