

## Anti-Glucocorticoid Receptor Nr3c1 Monoclonal Antibody (BuGR2)

Catalog Number: M00503-1

### About Nr3c1

Reacts with a common epitope of human major histocompatibility (MHC) class II antigens, HLA-DR and DP. Human MHC class II antigens are transmembrane glycoproteins composed of an  $\alpha$  chain (36kDa) and a  $\beta$  chain (27kDa). They are expressed primarily on antigen presenting cells such as B lymphocytes, monocytes, macrophages, and thymic epithelial cells and are also present on activated T lymphocytes. Human MHC class II genes are located in the HLA-D region that encodes at least six and ten chain genes. Three loci, DR, DQ and DP, encode the major expressed products of the human class II region. The human MHC class II molecules bind intracellularly processed peptides and present them to T-helper cells. They, therefore, have a critical role in the initiation of the immune response. It has been shown that some autoimmune diseases are associated with certain class II alleles.

### Overview

Product Name	Anti-Glucocorticoid Receptor Nr3c1 Monoclonal Antibody (BuGR2)
Reactive Species	Guinea pig, Human, Mouse, Rabbit, Rat, Sheep, Yeast
Description	Boster Bio Anti-Glucocorticoid Receptor Nr3c1 Monoclonal Antibody (BuGR2) (Catalog# M00503-1). Tested in Flow Cytometry, ICC, IHC-P, IP, WB, Gel Shift application(s). This antibody reacts with Human, Mouse, Rat, Guinea pig, Rabbit, Sheep, Yeast.
Conjugate	Biotin
Application	Flow Cytometry, IP, IHC-P, ICC, WB, Gel Shift
Clonality	Monoclonal BuGR2
Formulation	Lyophilized from PBS, pH 7.2, containing 0.05% sodium azide.
Storage Instructions	Store at -20°C for long-term storage. Avoid freeze/thaw cycles.
Host	Mouse
Uniprot ID	P06536

### Technical Details

Immunogen	Partially purified rat GR (glucocorticoid receptor)
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG2
Form	Lyophilized

Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Immunogen affinity purified
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (paraffin sections, 5µg/ml)</p> <p>Western Blot (5µg/ml). Detects a band of ~97kDa.</p> <p>Immunocytochemical staining of GR in L929 cells results in staining of both the cytoplasm and nucleus, even in the presence of hormone.</p> <p>Suggested dilutions/conditions may not be available for all applications. Optimal conditions must be determined individually for each application.</p>

## Anti-Glucocorticoid Receptor Nr3c1 Monoclonal Antibody (BuGR2) (M00503-1) Images

Fig. 1



Figure 1. Western blot analysis of Nr3c1 using anti-Nr3c1 antibody (M00503-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Nr3c1 antigen affinity purified polyclonal antibody (Catalog # M00503-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system.

## 2 Publications Citing This Product

1. PubMed ID: 10.4158/EP-2019-0475, A Novel Glucocorticoid Receptor Mutation in Primary Generalized Glucocorticoid Resistance Disease
2. PubMed ID: -, Lifan Ma,Xiaozhen Tan,Jiaqi Li,Yang Long,Zhen Xiao, Ji De,Yan Ren,Haoming Tian,T.a.o. Chen,A Novel Glucocorticoid Receptor Mutation in Primary Generalized Glucocorticoid Resistance Disease, Endocrine Practice, Volume 26,Issue 6,2020,651-659,ISSN 1530-891X,

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