

## Datasheet: MCA1390

<b>Description:</b>	MOUSE ANTI HUMAN GLUCOCORTICOID RECEPTOR
<b>Specificity:</b>	GLUCOCORTICOID RECEPTOR
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	8E9
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen		▪		
Immunohistology - Paraffin		▪		
Immunohistology - Resin		▪		
ELISA	▪			1/1000
Immunoprecipitation			▪	
Western Blotting	▪			1/1000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	0.1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	26 amino acid peptide corresponding to residues 150-176 of human GCR linked to human

thyroglobulin.

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**External Database Links**

**UniProt:**

[P04150](#)   [Related reagents](#)

**Entrez Gene:**

[2908](#)   NR3C1   [Related reagents](#)

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**Synonyms**

GRL

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**RRID**

AB\_322073

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**Fusion Partners**

Spleen cells from immunized BALB/c mice were fused with cells of the mouse Sp-2/0 Ag14 myeloma cell line.

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**Specificity**

**Mouse anti Human glucocorticoid receptor antibody, clone 8E9** recognizes the human glucocorticoid receptor (GR), also known as Nuclear receptor subfamily 3 group C member 1. Human GR is a 777 amino acid ~97kDa ([Moraes et al. 2005](#)) member of the NR3 subfamily of nuclear hormone receptors, bearing a single [nuclear receptor DNA-binding](#) domain. Multiple isoforms of the human glucocorticoid receptor are generated by either alternative splicing or alternative initiation ([UniProt:: P04150](#)).

In the absence of bound ligand GRs are located in the cytoplasm and are translocated to the nucleus or mitochondrion following ligation ([Rossini et al. 1984](#)). GRs are associated with heat shock proteins in the cytoplasm when ligated to steroid hormone, being disrupted on translocation of the steroid:receptor complex to the nucleus ([Tse et al. 2011](#)). Mouse anti Human glucocorticoid receptor antibody, clone 8E9 was raised against a conserved region of the glucocorticoid receptor and recognizes human GR, binding to an epitope between amino acids 167-176 and is therefore expected to bind all described isoforms of the human glucocorticoid receptor.

Mouse anti Human glucocorticoid receptor antibody, clone 8E9 has been used successfully for the identification of human glucocorticoid receptor using flow cytometry ([Berki et al. 1998](#)), western blotting ([Moraes et al. 2005](#)) and immunoprecipitation where it has also been shown to bind to the murine GR ([Paul-Clark et al. 2003](#), [Bartis et al. 2007](#)).

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**References**

1. Bourcier T *et al.* (2000) Regulation of human corneal epithelial cell proliferation and apoptosis by dexamethasone. [Invest Ophthalmol Vis Sci. 41 \(13\): 4133-41.](#)
  2. Moraes, L.A. *et al.* (2005) Ligand-specific glucocorticoid receptor activation in human platelets. [Blood.106: 4167-75.](#)
  3. Paul-Clark, M.J. *et al.* (2003) Glucocorticoid receptor nitration leads to enhanced anti-inflammatory effects of novel steroid ligands. [J Immunol. 171: 3245-52.](#)
  4. Bartis, D. *et al.* (2007) Intermolecular relations between the glucocorticoid receptor, ZAP-70 kinase, and Hsp-90. [Biochem Biophys Res Commun. 354: 253-8.](#)
  5. Ouyang, J. *et al.* (2012) Nuclear HSP90 regulates the glucocorticoid responsiveness of PBMCs in patients with idiopathic nephrotic syndrome. [Int Immunopharmacol. 14 \(3\): 334-40.](#)
  6. Bourcier, T. *et al.* (1999) *In vitro* effects of dexamethasone on human corneal keratocytes. [Invest Ophthalmol Vis Sci. 40 \(6\): 1061-70.](#)
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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),  
[DyLight®800](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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