Datasheet: MCA1390

BATCH NUMBER 160608

Description:	MOUSE ANTI HUMAN GLUCOCORTICOID RECEPTOR
Specificity:	GLUCOCORTICOID RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	8E9
Isotype:	IgG1
Quantity:	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.

	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.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture

	supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 0.1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	26 amino acid peptide corresponding to residues 150-176 of human GCR linked to human thyroglobulin.
External Database Links	**UniProt:** P04150 Related reagents **Entrez Gene:** 2908 NR3C1 Related reagents
Synonyms	GRL
RRID	AB_322073
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse Sp-2/0 Ag14 myeloma cell line.
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).

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.
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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1390 10041
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP

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'M365241:200529'

Printed on 18 Jan 2024