GR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GR, Polyclonal Antibody
Full Product Name	GR (Phospho-Ser226) Antibody
Product Gene Name	anti-GR antibody
Product Synonym Names	GCCR; GCR; GRL; NR3C1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi
Specificity	The antibody detects endogenous level of GR only when phosphorylated at serine 226.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	85,659 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (142657496..142815077, complement). Location: 5q31.3
OMIM	138040
3D Structure	ModBase 3D Structure for P04150
Immunogen	Peptide sequence around phosphorylation site of serine 226 (L-L-S (p)-P-L) derived from Human GR.
Product Categories/Family for anti-GR antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GR antibody	Western Blot (WB)
Application Notes for anti-GR antibody	WB: 1:500~1:1000
Related Product Information for anti-GR antibody	Receptor for glucocorticoids (GC). Has a dual mode of action: as a transcription factor that binds to glucocorticoid response elements (GRE), both for nuclear and mitochondrial DNA, and as a modulator of other transcription factors. Affects inflammatory responses, cellular proliferation and differentiation in target tissues. Could act as a coactivator for STAT5-dependent transcription upon growth hormone (GH) stimulation and could reveal an essential role of hepatic GR in the control of body growth. Involved in chromatin remodeling. Plays a significant role in transactivation.
Product References and Citations for anti-GR antibody	Wehmeyer L, Du Toit A, Lang DM, Hapgood JP (2014) J Biol Chem 289, 10235-51 Bouazza B, et al. (2014) Am J Respir Cell Mol Biol 50, 301-15 Lee MS, et al. (2013) Behav Brain Res 236, 56-6
Other Notes	Small volumes of anti-GR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for GR purchase	MBS8585220 is an antibody targeting GR. Also known as GR (Phospho-Ser226) Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GR. It may not necessarily be applicable to this product.

NCBI GI #	4504133
NCBI GeneID	2908
NCBI Accession #	NP_000167.1
UniProt Primary Accession #	P04150
UniProt Secondary Accession #	P04151; Q53EP5; Q6N0A4; A0ZXF9; B0LPG8; D3DQF4
UniProt Related Accession #	P04150
GenBank Nucleotide #	NM_000176.2
NCBI Official Full Name	glucocorticoid receptor isoform alpha
NCBI Official Synonym Full Names	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
NCBI Official Symbol	NR3C1
NCBI Official Synonym Symbols	GR; GCR; GRL; GCCR
UniProt Protein Name	Glucocorticoid receptor
UniProt Synonym Protein Names	Nuclear receptor subfamily 3 group C member 1
Protein Family	Grahamin
UniProt Gene Name	NR3C1
UniProt Synonym Gene Names	GRL; GR
UniProt Entry Name	GCR_HUMAN
NCBI Protein Information	glucocorticoid receptor; glucocorticoid nuclear receptor variant 1
NCBI Summary for GR	This gene encodes glucocorticoid receptor, which can function both as a transcription factor that binds to glucocorticoid response elements in the promoters of glucocorticoid responsive genes to activate their transcription, and as a regulator of other transcription factors. This receptor is typically found in the cytoplasm, but upon ligand binding, is transported into the nucleus. It is involved in inflammatory responses, cellular proliferation, and differentiation in target tissues. Mutations in this gene are associated with generalized glucocorticoid resistance. Alternative splicing of this gene results in transcript variants encoding either the same or different isoforms. Additional isoforms resulting from the use of alternate in-frame translation initiation sites have also been described, and shown to be functional, displaying diverse cytoplasm-to-nucleus trafficking patterns and distinct transcriptional activities (PMID:15866175). [provided by RefSeq, Feb 2011]

UniProt Comments for GR	GR: transcription factor of the nuclear receptor family. Receptor for glucocorticoids (GC). Binds to glucocorticoid response elements (GRE) and modulates other transcription factors. Affects inflammatory responses, cellular proliferation and differentiation in target tissues. Three alternatively spliced isoforms have been described. Protein type: Transcription factor; DNA-binding; Mitochondrial; Nuclear receptor Chromosomal Location of Human Ortholog: 5q31.3 Cellular Component: nucleoplasm; membrane; mitochondrial matrix; cytoplasm; cytosol; nucleus Molecular Function: protein dimerization activity; glucocorticoid receptor activity; protein binding; zinc ion binding; transcription factor activity; steroid binding Biological Process: transcription from RNA polymerase II promoter; transcription initiation from RNA polymerase II promoter; transcription, DNA-dependent; maternal behavior; adrenal gland development; regulation of glucocorticoid biosynthetic process; chromatin modification; signal transduction; glucocorticoid metabolic process; glucocorticoid mediated signaling; regulation of transcription, DNA-dependent; positive regulation of neuron apoptosis; glucocorticoid receptor signaling pathway; gene expression; positive regulation of transcription from RNA polymerase II promoter; regulation of gluconeogenesis Disease: Glucocorticoid Resistance, Generalized
Research Articles on GR	**1.** The natural mutant receptor hGRalphaV423A causes primary generalized glucocorticoid resistance by affecting multiple steps in the cascade of glucocorticoid receptor action.
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