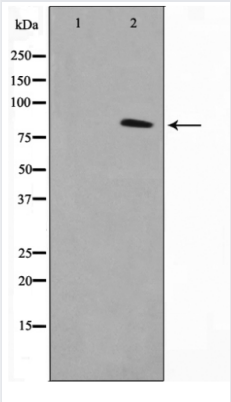
GR Antibody

PRODUCT OVERVIEW

Product Name	GR, Antibody
Full Product Name	Phospho-GR (Ser226) Antibody
Product Gene Name	anti-GR antibody
Product Synonym Names	GCCR; GCR; Glucocorticoid receptor; GR; GRL; NR3C1; Nuclear receptor subfamily 3 group C member 1; nuclear receptor subfamily 3; group C; member 1 (glucocorticoid receptor)
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	Phospho-GR (Ser226) Antibody detects endogenous levels of GR only when phosphorylated at Serine 226
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	86kDa
OMIM	138040
3D Structure	ModBase 3D Structure for P04150
Immunogen	A synthesized peptide derived from human GR around the phosphorylation site of Serine 226
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GR antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-GR antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-GR antibody	The protein encoded by this gene is a receptor for glucocorticoids and can act as both a transcription factor and a regulator of other transcription factors. The encoded protein can bind DNA as a homodimer or as a heterodimer with another protein such as the retinoid X receptor. This protein can also be found in heteromeric cytoplasmic complexes along with heat shock factors and immunophilins.
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	MBS8511250 is an antibody targeting GR. Also known as Phospho-GR (Ser226) Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-GR antibody
Western blot analysis of GR phosphorylation expression in EGF treated Jurkat whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

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; F5ATB7
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
NCBI Official Symbol	NR3C1
NCBI Official Synonym Symbols	GR; GCR; GRL; GCCR; GCRST
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
NCBI Protein Information	glucocorticoid receptor
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	Receptor for glucocorticoids (GC) (PubMed:27120390). 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. Involved in chromatin remodeling (PubMed:9590696). Plays a role in rapid mRNA degradation by binding to the 5' UTR of target mRNAs and interacting with PNRC2 in a ligand-dependent manner which recruits the RNA helicase UPF1 and the mRNA-decapping enzyme DCP1A, leading to RNA decay (PubMed:25775514). 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 ().
Research Articles on GR	**1.** Study evaluated whether associations between early adversity and brain responses to dynamic facial expressions in early adulthood varied as a function of regional differences in the expression of NR3C1. Strongest associations between adversities and BOLD response to fearful faces were in brain regions with higher NR3C1 mRNA expression levels. Highest expression of NR3C1 is found in occipital and lowest in temporal regions
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