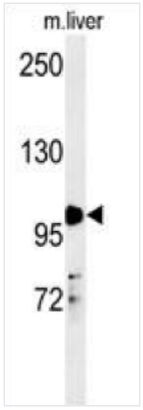
NR3C1 Antibody – Rabbit Polyclonal

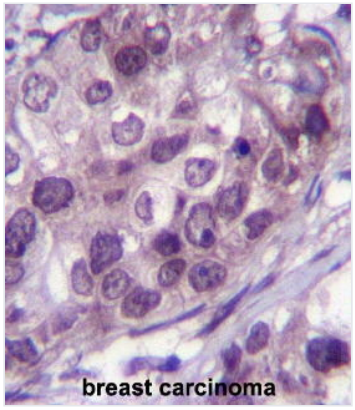
PRODUCT OVERVIEW

Product Name	NR3C1, Polyclonal Antibody
Full Product Name	NR3C1, ID (NR3C1, GRL, Glucocorticoid receptor, Nuclear receptor subfamily 3 group C member 1) (AP)
Product Gene Name	anti-NR3C1 antibody
Product Synonym Names	NR3C1; GRL; Glucocorticoid receptor; Nuclear receptor subfamily 3 group C member 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human NR3C1. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
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	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 236-262 in the central region of human NR3C1, UniProt Accession #NP_000167.1; P04150; P59667.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-NR3C1 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-NR3C1 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-NR3C1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NR3C1 antibody	NR3C1 is a receptor for glucocorticoids that can act as both a transcription factor and as a regulator of other transcription factors. This protein can also be found in heteromeric cytoplasmic complexes along with heat shock factors and immunophilins. The protein is typically found in the cytoplasm until it binds a ligand, which induces transport into the nucleus. Mutations in this gene are a cause of glucocorticoid resistance, or cortisol, resistance. Alternate splicing, the use of at least three different promoters, and alternate translation initiation sites result in several transcript variants encoding the same protein or different isoforms, but the full-length nature of some variants has not been determined.
Product References and Citations for anti-NR3C1 antibody	1. Bosker, F.J., et al. Mol. Psychiatry (2010). 2. Inkster, B., et al. Neuroimage (2010). 3. Geelhoed, M.J., et al. BMC Med. Genet. 11, 39 (2010).

Other Notes	Small volumes of anti-NR3C1 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 NR3C1 purchase	MBS6326644 is an antibody targeting NR3C1. Also known as NR3C1, ID (NR3C1, GRL, Glucocorticoid receptor, Nuclear receptor subfamily 3 group C member 1) (AP). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-NR3C1 antibody
Western Blot analysis in mouse liver tissue lysates (35ug/lane) usingMBS644677. This demonstrates that MBS644677 detected NR3C1 protein (arrow).



Immunohistochemistry (IHC) of anti-NR3C1 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma using MBS644677 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS644677 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NR3C1. 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 #	P59667
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	Glucocorticoid receptor
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 NR3C1	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 NR3C1	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 NR3C1	**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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