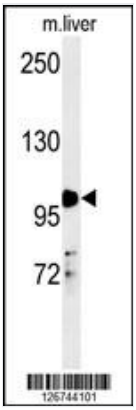
NR3C1 Antibody – Rabbit Polyclonal

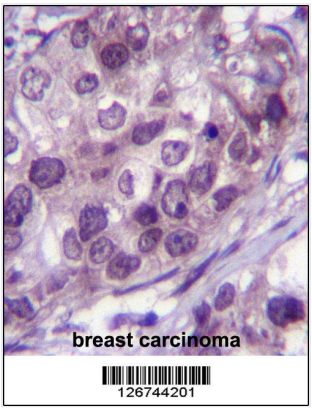
PRODUCT OVERVIEW

Product Name	NR3C1, Polyclonal Antibody
Full Product Name	NR3C1 Antibody (Center)
Product Gene Name	anti-NR3C1 antibody
Product Synonym Names	Glucocorticoid receptor; GR; Nuclear receptor subfamily 3 group C member 1; NR3C1; GRL
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human, mouse (Predicted Reactivity: Rabbit)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This NR3C1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 236-262 amino acids from the Central region of human NR3C1.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	NR3C1 peptide (MBS9225652) is used for blocking the activity of NR3C1 antibody (MBS9207237)
Molecular Weight	85659
Immunogen Sequence Positions	236-262
OMIM	138040
3D Structure	ModBase 3D Structure for P04150
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-NR3C1 antibody	Cancer; Signal Transduction
Applications Tested/Suitable for anti-NR3C1 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-NR3C1 antibody	WB~~1:1000

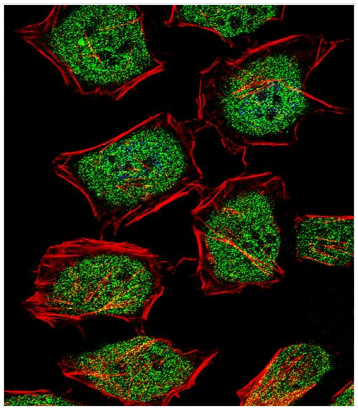
Related Product Information for anti-NR3C1 antibody	NR3C1 is a receptor for glucocorticoids that can act as both a transcription factor and as a regulator of other transcription factors. This protein can also be found in heteromeric cytoplasmic complexes along with heat shock factors and immunophilins. 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	Bosker, F.J., et al. Mol. Psychiatry (2010) Inkster, B., et al. Neuroimage (2010) 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	MBS9207237 is an antibody targeting NR3C1. Also known as NR3C1 Antibody (Center). Reactive in Human, mouse (Predicted Reactivity: Rabbit). Host: Rabbit.



Western Blot (WB) of anti-NR3C1 antibody
NR3C1 Antibody (Center) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the NR3C1 antibody detected NR3C1 protein (arrow).



Immunohistochemistry (IHC) of anti-NR3C1 antibody
NR3C1 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NR3C1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-NR3C1 antibody
Fluorescent confocal image of Hela cell stained with NR3C1 Antibody (Center). Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with NR3C1 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). NR3C1 immunoreactivity is localized to Cytoplasm and Nucleus significantly.

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
NCBI Related Accession #	NP_001018084.1; NP_001018085.1; NP_001018086.1; NP_001018087.1; NP_001018661.1; NP_001019265.1; NP_001191187.1; NP_001191188.1; NP_001191189.1; NP_001191190.1; NP_001191191.1; NP_001191192.1; NP_00119
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; GCRST
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
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: DNA-binding; Mitochondrial; Transcription factor; 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 mediated signaling; glucocorticoid metabolic process; regulation of transcription, DNA-dependent; positive regulation of neuron apoptosis; glucocorticoid receptor signaling pathway; gene expression; regulation of gluconeogenesis; positive regulation of transcription from RNA polymerase II promoter Disease: Glucocorticoid Resistance, Generalized
Research Articles on NR3C1	**1.** Glucocorticoid receptor gene polymorphisms were associated with level of disease activity of rheumatoid arthritis in the postpartum period.
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