



NR3C1 peptide (DAG-P0546)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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]
Specificity	Widely expressed. In the heart, detected in left and right atria, left and right ventricles, aorta, apex, intraventricular septum, and atrioventricular node as well as whole adult and fetal heart.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the nuclear hormone receptor family. NR3 subfamily. Contains 1 nuclear receptor DNA-binding domain.
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	NR3C1 nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) [Homo sapiens (human)]
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Official Symbol	NR3C1
Synonyms	NR3C1; nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor); GR; GCR; GRL; GCCR; glucocorticoid receptor; glucocorticoid nuclear receptor variant 1;
Entrez Gene ID	2908
mRNA Refseq	NM_000176.2
Protein Refseq	NP_000167.1
UniProt ID	F1D8N4
Chromosome Location	5q31.3
Pathway	Adipogenesis, organism-specific biosystem; BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem; Neuroac
Function	glucocorticoid receptor activity; protein binding; protein dimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; steroid binding; zinc ion binding;