

NR3C1/Glucocorticoid Receptor Antibody (clone 6E6)
Mouse Monoclonal Antibody
Catalog # ALS15713**Specification**

NR3C1/Glucocorticoid Receptor Antibody (clone 6E6) - Product Information

| | |
|-------------------|------------------------|
| Application | IHC, IF |
| Primary Accession | P04150 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Calculated MW | 86kDa KDa |

NR3C1/Glucocorticoid Receptor Antibody (clone 6E6) - Additional Information**Gene ID** 2908**Other Names**

Glucocorticoid receptor, GR, Nuclear receptor subfamily 3 group C member 1, NR3C1, GRL

Target/Specificity

Human GR / Glucocorticoid Receptor

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

NR3C1/Glucocorticoid Receptor Antibody (clone 6E6) is for research use only and not for use in diagnostic or therapeutic procedures.

NR3C1/Glucocorticoid Receptor Antibody (clone 6E6) - Protein Information**Name** NR3C1 ([HGNC:7978](#))**Synonyms** GRL**Function**

Receptor for glucocorticoids (GC) (PubMed: [27120390](http://www.uniprot.org/citations/27120390), PubMed: [37478846](http://www.uniprot.org/citations/37478846)). 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 (PubMed: [28139699](http://www.uniprot.org/citations/28139699)). Affects inflammatory responses, cellular proliferation and differentiation in target tissues. Involved in chromatin remodeling (PubMed: [9590696](http://www.uniprot.org/citations/9590696)). Plays a role in rapid mRNA degradation by binding to the 5' UTR of target mRNAs and interacting with PNR2 in a ligand-dependent manner which recruits the RNA helicase UPF1 and the mRNA-decapping enzyme DCP1A, leading to RNA decay (PubMed:

href="http://www.uniprot.org/citations/25775514" target="_blank">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 (By similarity).

Cellular Location

[Isoform Alpha]: Cytoplasm. Nucleus. Mitochondrion. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome {ECO:0000250|UniProtKB:P06537}. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:P06537}. Note=After ligand activation, translocates from the cytoplasm to the nucleus (PubMed:30698747). The hormone-occupied receptor undergoes rapid exchange between chromatin and the nucleoplasmic compartment (By similarity). In the presence of NR1D1 shows a time-dependent subcellular localization, localizing to the cytoplasm at ZT8 and to the nucleus at ZT20 (By similarity). Lacks this diurnal pattern of localization in the absence of NR1D1, localizing to both nucleus and the cytoplasm at ZT8 and ZT20 (By similarity). Upon dexamethasone binding associates with the glucocorticoid response elements of target genes (By similarity) {ECO:0000250|UniProtKB:P06537, ECO:0000269|PubMed:30698747} [Isoform Alpha-B]: Nucleus. Cytoplasm Note=After ligand activation, translocates from the cytoplasm to the nucleus.

Tissue Location

Widely expressed including bone, stomach, lung, liver, colon, breast, ovary, pancreas and kidney (PubMed:25847991). 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 (PubMed:10902803) [Isoform Alpha-2]: Widely expressed.

Volume

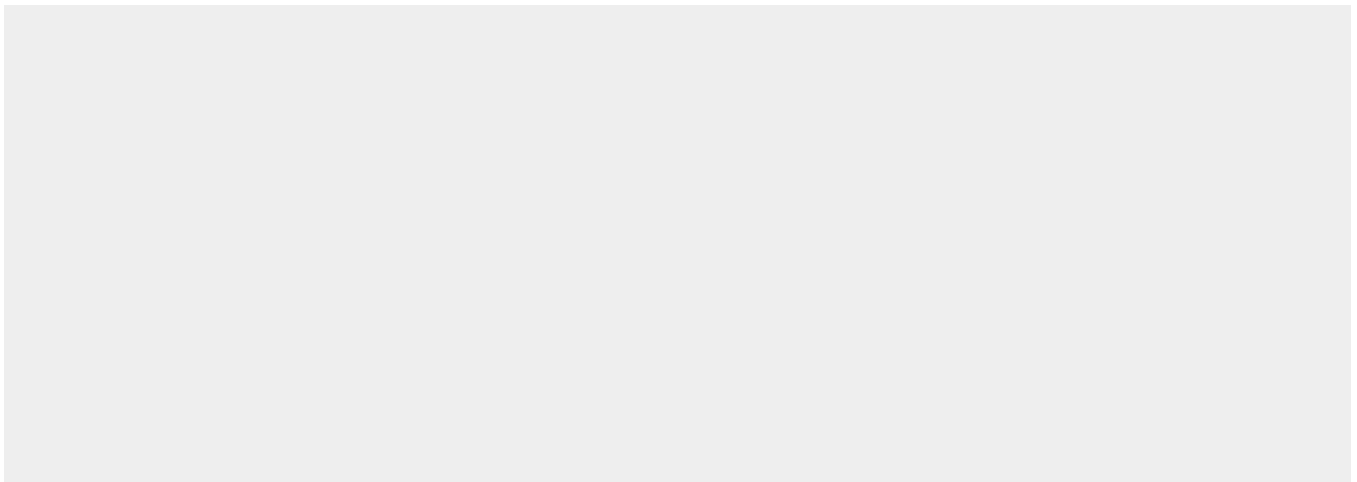
50 µl

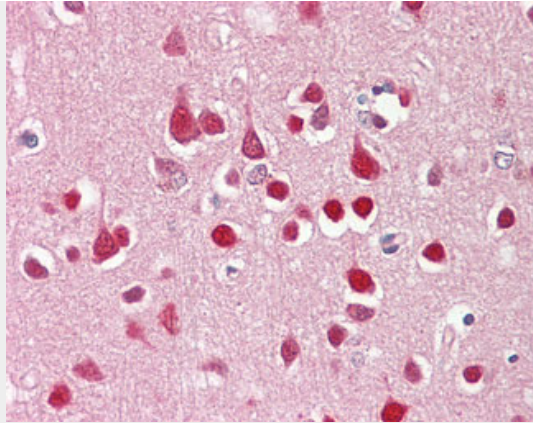
NR3C1/Glucocorticoid Receptor Antibody (clone 6E6) - Protocols

Provided below are standard protocols that you may find useful for product applications.

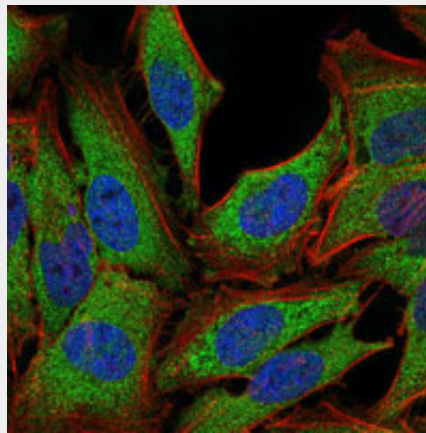
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NR3C1/Glucocorticoid Receptor Antibody (clone 6E6) - Images





Anti-NR3C1/Glucocorticoid Receptor antibody IHC staining of human brain, cortex.



Immunofluorescence of PC-2 cells using NR3C1 mouse monoclonal antibody (green).

NR3C1/Glucocorticoid Receptor Antibody (clone 6E6) - Background

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. May play a negative role in adipogenesis through the regulation of lipolytic and antilipogenic genes expression.

NR3C1/Glucocorticoid Receptor Antibody (clone 6E6) - References

- Hollenberg S.M., et al. Nature 318:635-641(1985).
- Encio I.J., et al. J. Biol. Chem. 266:7182-7188(1991).
- Wang W., et al. Nucleic Acids Res. 39:44-58(2011).
- Turner J.D., et al. Ann. N. Y. Acad. Sci. 1095:334-341(2007).
- Munroe D.G., et al. Submitted (SEP-1993) to the EMBL/GenBank/DDBJ databases.