

**GR (Phospho-Ser203) Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP52488**

**Specification**

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**GR (Phospho-Ser203) Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P04150</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>85659</b>

**GR (Phospho-Ser203) Antibody - Additional Information**

**Gene ID** 2908

**Other Names**

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

**Dilution**

WB~~1:1000

**Format**

Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

**Storage Conditions**

-20°C

**GR (Phospho-Ser203) Antibody - 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 PNRC2 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</a>). 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. Note=After ligand activation, translocates from the cytoplasm to the nucleus. 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). {ECO:0000250|UniProtKB:P06537, ECO:0000269|PubMed:18838540, ECO:0000269|PubMed:27120390, ECO:0000269|PubMed:8621628} [Isoform Alpha-B]: Nucleus. Cytoplasm Note=After ligand activation, translocates from the cytoplasm to the nucleus.

#### Tissue Location

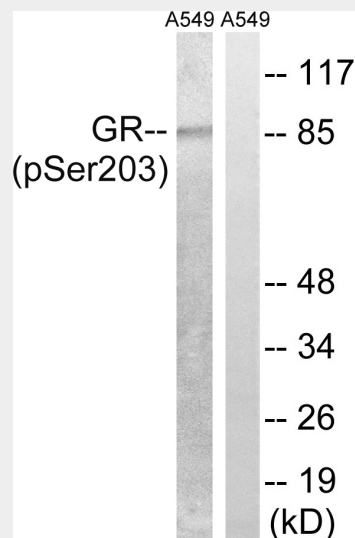
Widely expressed including bone, stomach, lung, liver, colon, breast, ovary, pancreas and kidney (PubMed:25847991). In the heart, detected in left and right atria, left and right ventricles, aorta, apex, intraventricular septum, and atrioventricular node as well as whole adult and fetal heart (PubMed:10902803) [Isoform Alpha-2]: Widely expressed.

### GR (Phospho-Ser203) Antibody - Protocols

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

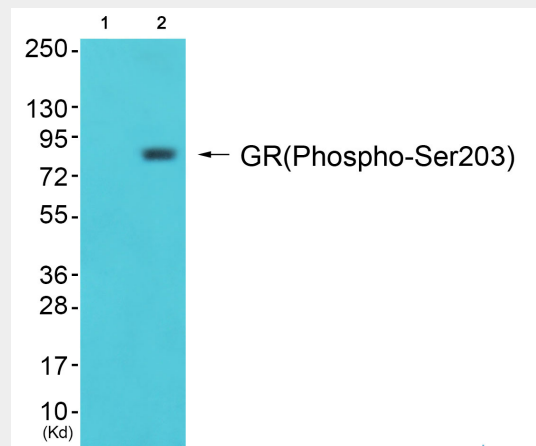
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### GR (Phospho-Ser203) Antibody - Images



Western blot analysis of extracts from A549 cells, treated with dexamethason (10 nM, 1 hour),

using GR (Phospho-Ser203) antibody.



Western blot analysis of extracts from Hela cells (Lane 2) and Hepg2 cells (Lane 3), using GR (Phospho-Ser203) Antibody. The lane on the left is treated with synthesized peptide.

### GR (Phospho-Ser203) Antibody - 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.

### GR (Phospho-Ser203) Antibody - 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.