





## GR (phospho Ser203) Polyclonal Antibody

Catalog No         BYab-03282           Isotype         IgG           Reactivity         Human;Mouse           Applications         WB;ELISA           Gene Name         NR3C1           Protein Name         Glucocorticoid receptor           Immunogen         The antiserum was produced against synthesized peptide derived from human GR around the phosphorylation site of Ser203. AA range:171-220           Specificity         Phospho-GR (S203) Polyclonal Antibody detects endogenous levels of GR protein only when phosphorylated at S203.           Formulation         Liquid in PBs containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Polyclonal, Rabbit, IgG           Purification         The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         NR3C1; GRL; Glucocorticoid receptor; GR; Nuclear receptor subfamily 3 group C member 1           Observed Band         86kD           Cell Pathway         Il [Isoform Alpha]: Cytoplasm . Nucleus . Mitochondrion . Cytoplasm, cytoskeleton, spindle . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . After l		
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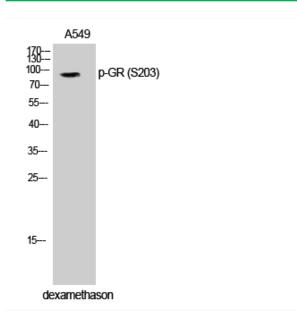


	[Isoform Beta]: Widely expressed including brain, bone marrow, thymus, spleen, liver, kidney, pancreas, lung, fat, skeletal muscle, heart, placenta and blood leukocytes.; [Isoform Alpha-2]: Widely expressed.
Function	alternative products:At least 4 isoforms, Alpha (shown here), Alpha-B, Beta and Beta-B, are produced by alternative initiation at Met-1 and Met-27. The existence of isoform Alpha and isoform Alpha-B has been proved by mutagenesis. As the sequence environment of the 2 potential ATG initiator codons is the same for the other altrnatively spliced isoforms, alternative initiation of translation could also occur on these transcripts. Additional isoforms seem to exist, disease: Defects in NR3C1 are a cause of glucocorticoid resistance [MIM:138040]; also known as cortisol resistance. It is a hypertensive, hyperandrogenic disorder characterized by increased serum cortisol concentrations. Inheritance is autosomal dominant., domain: Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal steroid-binding domain., function: Receptor for glucocorticoids (GC). Has a
Background	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 pat
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.





## **Products Images**



Western Blot analysis of A549 cells using Phospho-GR (S203) Polyclonal Antibody diluted at 1:500



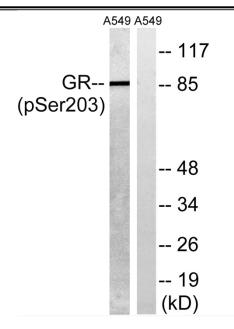
Western Blot analysis of HELA 293T 453 cells using Phospho-GR (S203) Polyclonal Antibody diluted at 1:500

Nanjing BYabscience technology Co.,Ltd



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Western blot analysis of lysates from A549 cells treated with dexamethason 10nM 1h, using GR (Phospho-Ser203) Antibody. The lane on the right is blocked with the phospho peptide.