

Glucocorticoid Receptor alpha Antibody

Lot Number: PJ208107

Product Data Sheet

Tested Species Reactivity	Published Species Reactivity
Human (Hu)	Human (Hu)
Mouse (Ms)	Mouse (Ms)
Rat (Rt)	Non-human primate (Nhp)
	Ovine (Ov)
	Plant (Pl)
	Rat (Rt)

Tested Applications	Dilution *
Western Blot (WB)	4 µg/ml
Immunofluorescence (IF)	1:100-1:200
Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC)	1:20
Immunoprecipitation (IP)	Assay dependent
ChIP assay (ChIP)	Assay dependent

Published Applications	Dilution
Western Blot (WB)	See publications
Immunocytochemistry (ICC)	See publications
Immunohistochemistry (IHC)	See publications
Flow Cytometry (FACS)	See publications
Immunoprecipitation (IP)	See publications
ChIP assay (ChIP)	See publications
Gel Shift (GS)	See publications

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details	
Catalog Number:	PA1-516
Size:	50 µg
Class:	Polyclonal
Type:	Antibody
Clone:	
Host / Isotype:	Rabbit /
Immunogen:	Synthetic Peptide: C(755) E I I T N Q I P K Y S N G N I K K(771)

Form Information	
Form:	Lyophilized
Concentration:	1mg/ml
Purification:	Antigen affinity chromatography
Storage Buffer:	PBS
Preservative:	0.05% sodium azide
Storage Conditions:	-20° C, Avoid Freeze/Thaw Cycles

Product Specific Information

PA1-516 detects glucocorticoid receptor (GR) alpha from human, mouse and rat tissues. This antibody does not detect GR beta.

PA1-516 has been successfully used in Western blot, immunocytochemistry, immunofluorescence and immunoprecipitation (ChIP) procedures. By Western blot, this antibody detects an ~94 kDa protein representing GR in HeLa cell lysate.

PA1-516 immunizing peptide corresponds to amino acid residues 755-771 of human GR alpha. This peptide (Cat. # PEP-221) is available for use in neutralization and control experiments.

Reconstitute with 50 µl of distilled water.

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General Information

Glucocorticoids are a family of steroids necessary for the regulation of energy metabolism and the immune and inflammatory responses. These compounds exert their effect through their interaction with the glucocorticoid receptor (GR) and that complex's subsequent association with DNA. All normal mammalian tissues examined to date have been shown to contain GR.

The human GR exists in two forms, alpha and beta, which are thought to be the result of alternative splicing of a single gene. Sequence analysis indicates that alpha and beta forms of human GR are 777 and 742 amino acids long, respectively. They are identical up to residue 727, after which they diverge. After ligand binding, the 94 kDa GR alpha isoform translocates from the cytoplasm to the nucleus where it regulates gene expression. In contrast, the 90 kDa GR beta isoform does not appear to bind either glucocorticoid agonists or antagonists, and has been localized predominantly in the nucleus independent of hormone treatment in some human cell lines. Studies suggest that human GR alpha has a greater affinity for GR response elements (GREs) than GR beta only when in the ligand bound state.

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