

Glucocorticoid Receptor Polyclonal Antibody

Product Details

Size	200 µL
Species Reactivity	Human, Mouse, Reptile, Rat
Published Species	Rabbit, Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic Peptide: A(150) P T E K E F P K T H S D V S S E Q Q H L K G Q T G(175)
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	whole serum, PBS
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325823

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,500	4 Publications
Immunohistochemistry (IHC)	1:250	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	1:250	3 Publications
Immunoprecipitation (IP)	Assay-dependent	-
ChIP assay (ChIP)	-	4 Publications
Gel Shift (GS)	Assay-dependent	5 Publications

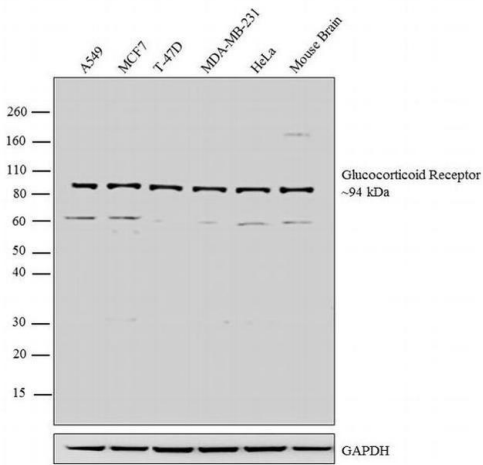
Product Specific Information

PA1-510A detects glucocorticoid receptor (GR) from human, rat, and reptile tissues. This product detects both the unactivated and activated forms of the receptor.

PA1-510A has been successfully used in Western blot, immunohistochemistry, immunocytochemistry, immunoprecipitation, immunofluorescence, and gel shift procedures. By Western blot, this antibody detects an ~97 kDa protein representing GR from rat liver extract.

PA1-510A immunizing peptide corresponds to amino acid residues 150- 175 from human GR.

Product Images For Glucocorticoid Receptor Polyclonal Antibody

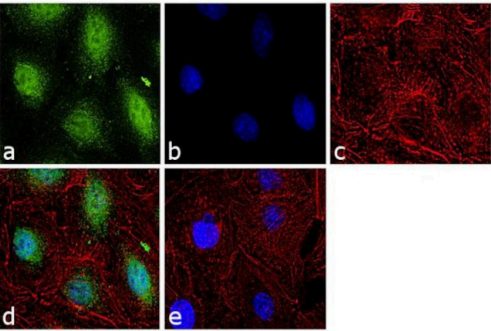


Glucocorticoid Receptor Antibody (PA1-510A) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of A549 (Lane 1), MCF7 (Lane 2), T-47D (Lane 3), MDA-MB-231 (Lane 4), HeLa (Lane 5) and tissue extract of Mouse Brain (Lane 6). The blot was probed with Anti-Glucocorticoid Receptor Rabbit Polyclonal Antibody (Product # PA1-510A, 1:1,000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 94 kDa band corresponding to Glucocorticoid Receptor was observed in the cell lines and tissue tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody using iBind™ Flex Western Starter Kit (Product # SLF2000S). Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

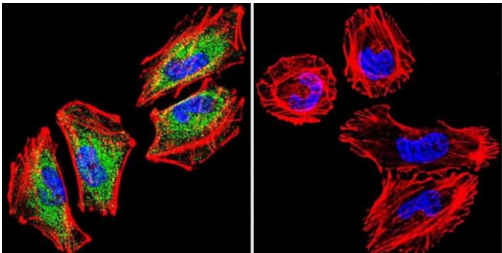
Glucocorticoid Receptor Antibody (PA1-510A) in ICC/IF

Immunofluorescence analysis of Glucocorticoid Receptor was performed using 70% confluent log phase A-549 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Glucocorticoid Receptor Rabbit Polyclonal Antibody (Product # PA1-510A) at 1:250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear and cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



Glucocorticoid Receptor Antibody (PA1-510A) in ICC/IF

Immunofluorescent analysis of Glucocorticoid Receptor using Glucocorticoid Receptor Polyclonal Antibody (Product # PA1-510A) shows staining in A2058 Cells. Glucocorticoid Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Glucocorticoid Receptor (Product # PA1-510A) at a dilution of 1:100 over night at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.



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Western Blot (4)

Neurotoxicology

Enhanced stimulus sequence-dependent repeated learning in male offspring after prenatal stress alone or in conjunction with lead exposure.

"PA1-510A was used in western blot to study the effects of prenatal stress alone or in conjunction with lead exposure on learning in male offspring"

Authors: Cory-Slechta DA, Virgolini MB, Liu S, Weston D

Year
2012

Species
Rat

Dilution
1:2000

Clinical cancer research : an official journal of the American Association for Cancer Research

Administration of glucocorticoids to ovarian cancer patients is associated with expression of the anti-apoptotic genes SGK1 and MKP1 /DUSP1 in ovarian tissues.

"Published figure using Glucocorticoid Receptor polyclonal antibody (Product # PA1-510A) in Western Blot"

Authors: Melhem A, Yamada SD, Fleming GF, Delgado B, Brickley DR, Wu W, Kocherginsky M, Conzen SD

Year
2009

Species
Human

Dilution
1:200

[View more WB references on thermofisher.com](#)

Immunohistochemistry (5)

General and comparative endocrinology

Distribution and subcellular localization of glucocorticoid receptor-immunoreactive neurons in the developing and adult male zebra finch brain.

"PA1-510A was used in immunohistochemistry to characterize the glucocorticoid receptor-immunoreactive neurons in male zebra finch brain"

Authors: Shahbazi M, Schmidt M, Carruth LL

Year
2011

Species
Rabbit

Dilution
1:2000

Auris, nasus, larynx

Intratympanic dexamethasone as initial therapy for idiopathic sudden sensorineural hearing loss: Clinical evaluation and laboratory investigation.

"PA1-510A was used in immunohistochemistry to investigate the therapeutic efficacy of intratympanic dexamethasone for idiopathic sudden sensorineural hearing loss"

Authors: Fu Y, Zhao H, Zhang T, Chi F

Year
2011

Species
Rat

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (P) (1)

ICC/IF (3)

ChIP (4)

GS (5)

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