Affinity Biosciences
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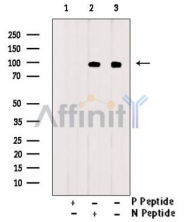
Phospho-GR(Ser203) Ab

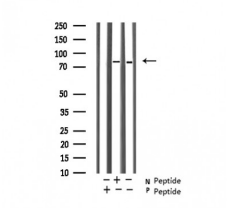
Cat.#: AF0042	Concn.: 1mg/ml	Mol.Wt.: 86kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

Application:	WB 1:500-1:2000, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Specificity:	Phospho-GR(Ser203) Ab detects endogenous levels of GR only when phosphorylated at Sersine 203.
Immunogen:	A synthesized peptide derived from human GR around the phosphorylation site of Ser203.
Uniprot:	P04150
Description:	The protein encoded by this gene is a receptor for glucocorticoids and can act as both a transcription factor and a regulator of other transcription factors. The encoded protein can bind DNA as a homodimer or as a heterodimer with another protein such as the retinoid X receptor. This protein can also be found in heteromeric cytoplasmic complexes along with heat shock factors and immunophilins. The protein is typically found in the cytoplasm until it binds a ligand, which induces transport into the nucleus. Mutations in this gene are a cause of glucocorticoid resistance, or cortisol resistance. Alternate splicing, the use of at least three different promoters, and alternate translation initiation sites result in several transcript variants encoding the same protein or different isoforms, but the full-length nature of some variants has not been determined.
Subcellular Location:	Cytoplasm. Nucleus. Cytoplasmic in the absence of ligand; nuclear after ligand-binding.
Tissue Specificity:	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 Beta: Widely expressed including brain, bone marrow, thymus, spleen, liver, kidney, pancreas, lung, fat, skeletal muscle, heart, placenta and blood leukocytes (PubMed:7769088, PubMed:8621628). Isoform Alpha-2: Expressed at low level.

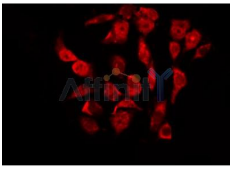
Similarity:	Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain (PubMed:3841189). The ligand-binding domain is required for correct chromosome segregation during mitosis although ligand binding is not required (PubMed:25847991).Belongs to the nuclear hormone receptor family. NR3 subfamily.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis of extracts from HeLa, using Phospho-GR(Ser203) Ab. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.



Western blot analysis on HeLa cell lysates using Phospho-GR(Ser203) Ab.The lane on the left was treated with the antigen-specific peptide.



AF0042 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.