

Mouse NR3C1 Monoclonal Antibody | anti-NR3C1 antibody

NR3C1

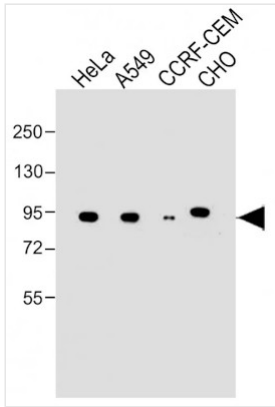
CATALOG # AAA290964	HOST Mouse	REACTIVITY Human, MousePredicted : Human , Mouse	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

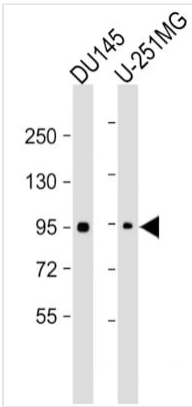
NR3C1; Monoclonal Antibody; Purified Mouse Monoclonal Antibody (Mab); Glucocorticoid receptor; GR; Nuclear receptor subfamily 3 group C member 1; GRL; anti-NR3C1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse Predicted : Human , Mouse
Clonality	Monoclonal
Isotype	IgG1,kappa
Clone Number	2153CT307.32.80
Specificity	This antibody is generated from a mouse immunized with a recombinant protein from human.
Purity/Purification	This antibody is purified through a protein G column, followed by dialysis against PBS.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Applicable Applications for anti-NR3C1 antibody	ELISA, WB (Western Blot)
Function	Receptor for glucocorticoids (GC) (PubMed:27120390). 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. Involved in chromatin remodeling (PubMed: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:25775514). 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.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
All lanes : Anti-NR3C1 at dilutionLane 1: HeLa whole cell lysateLane 2: A549 whole cell lysateLane 3: CCRF-CEM whole cell lysateLane 4: CHO whole cell lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 86 kDaBlocking/Dilution buffer: 5% NFD/MTBST.



WB (Western Blot)
All lanes : Anti-NR3C1 at dilutionLane 1: DU145 whole cell lysateLane 2: U-251MG whole cell lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 86 kDaBlocking/Dilution buffer: 5% NFD/MTBST.

ADDITIONAL INFORMATION

Related Product Information for anti-NR3C1 antibody	Background: Receptor for glucocorticoids (GC) (PubMed:27120390). 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. Involved in chromatin remodeling (PubMed: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:25775514). 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).
Product Categories/Family for anti-NR3C1 antibody	Crown Antibodies; Primary Antibodies; Cancer; Signal Transduction; Mitochondrion
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).Tung K.,et al.Shock 36:339-344(2011)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504133
NCBI GeneID	2908
NCBI Accession #	NP_000167.1
NCBI GenBank Nucleotide #	NM_000176.2
UniProt Accession #	P04150; P04151; Q53EP5; Q6N0A4; A0ZXF9; B0LPG8; D3DQF4
Molecular Weight	85,659 Da
NCBI Official Full Name	glucocorticoid receptor isoform alpha
NCBI Official Synonym Full Names	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
NCBI Official Symbol	NR3C1
NCBI Official Synonym Symbols	GR; GCR; GRL; GCCR
NCBI Protein Information	glucocorticoid receptor; glucocorticoid nuclear receptor variant 1
UniProt Protein Name	Glucocorticoid receptor

UniProt Gene Name	NR3C1
UniProt Synonym Gene Names	GRL; GR
UniProt Entry Name	GCR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/nr3c1-antibody-clone-2153ct307-32-80-western-blot-elisa/290964>