Data Sheet (Cat.No.TMAH-00826)

Anti-NR3C1 Antibody (9X89)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9X89
Purification:	Affinity-chromatography

Applications

Verified Activity:	1. Western Blot -Positive WB detected in: 293 whole cell lysate, Hela whole cell lysate, HepG2 whole cell lysate, Jurkat whole cell lysate, A549 whole cell lysate, MCF-7 whole cell lysate, U87 whole cell lysate -All lanes: NR3C1 antibody at 1:1500 -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 86, 83, 82, 77, 76, 65, 61, 52, 51, 50 kDa -Observed band size: 95 kDa 2. Overlay histogram showing Jurkat cells stained with TMAH-00826 (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then incubated in 10% normal goat serum to block non-specific protein-protein interactions followedby the antibody (1μg/1*10^6 cells) for 1 h at 4°C.The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4°C. Control antibody (green line) was Rabbit IgG (1μg/1*10^6 cells) used under the same conditions. Acquisition of >10,000 events was performed.
Application:	ELISA,FCM,WB
Recommended	WB:1:500-1:5000; FCM:1:20-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human GR
Antigen Species:	Human
Gene ID:	2908
Uniprot ID:	P04150
Synonyms:	GCCR;GCR;GCRST;GRL;GR;nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
Biology Area:	Epigenetics and Nuclear Signaling, Cancer, Signal transduction

Research Background

Receptor for glucocorticoids (GC). 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

Affects inflammatory responses, cellular proliferation and differentiation in target tissues. Involved in chromatin remodeling. 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. 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. Has transcriptional activation and repression activity. Mediates glucocorticoid-induced apoptosis. Promotes accurate chromosome segregation during mitosis. May act as a tumor suppressor. May play a negative role in adipogenesis through the regulation of lipolytic and antilipogenic gene expression. Acts as a dominant negative inhibitor of isoform Alpha. Has intrinsic transcriptional activity independent of isoform Alpha when both isoforms are coexpressed. Loses this transcription modulator function on its own. Has no hormone-binding activity. May play a role in controlling glucose metabolism by maintaining insulin sensitivity. Reduces hepatic gluconeogenesis through down-regulation of PEPCK in an isoform Alpha-dependent manner. Directly regulates STAT1 expression in isoform Alpha-independent manner. Has lower transcriptional activation activity than isoform Alpha. Exerts a dominant negative effect on isoform Alpha trans-repression mechanism. Increases activity of isoform Alpha. More effective than isoform Alpha in transcriptional activation, but not repression activity. Has transcriptional activation activity. Has transcriptional activation activity. Has transcriptional activation activity. Has highest transcriptional activation activity of all isoforms created by alternative initiation. Has transcriptional repression activity. Mediates glucocorticoid-induced apoptosis. Has transcriptional activation activity. Has transcriptional activation activity. Has lowest transcriptional activation activity of all isoforms created by alternative initiation. Has transcriptional repression activity.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481