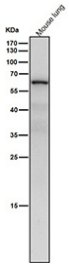
NR2C2 Antibody 31N37 / TR4 Monoclonal Antibody [clone 31N37] (FY12652)

Catalog No.	Formulation	Size
FY12652	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

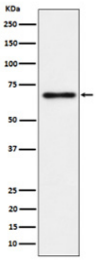
Recombinant RABBIT MONOCLONAL

Bulk quote request

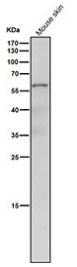
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	31N37
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	P49116
Applications	Western blot: 1:500-1:2000
Limitations	This NR2C2 Antibody 31N37 / TR4 Monoclonal Antibody is available for research use only.



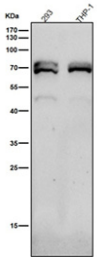
NR2C2 Antibody 31N37 by WB in mouse lung tissue. Western blot analysis of mouse lung tissue lysate using NR2C2 Antibody 31N37 at a 1:4000 dilution for 1 hour at room temperature. The predicted molecular weight of NR2C2 is approximately 65-67 kDa, reflecting two reported protein isoforms. The blot provides evidence of antibody reactivity in mouse lung tissue, although the signal is faint in the supplied image. This TR4 Monoclonal Antibody recognizes testicular receptor 4, an orphan nuclear receptor involved in transcriptional regulation, metabolism, and development.



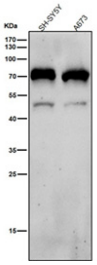
NR2C2 Antibody 31N37 by WB in human PC-3 cells. Western blot analysis of human PC-3 cell lysate using NR2C2 Antibody 31N37. A prominent immunoreactive band is detected at approximately 65-70 kDa, consistent with the predicted molecular weight of NR2C2 isoforms at 65-67 kDa. The band is relatively distinct, with limited additional immunoreactivity visible in the supplied image. This TR4 Monoclonal Antibody, clone 31N37, recognizes a nuclear receptor transcription factor involved in gene expression, metabolic regulation, and cellular differentiation.



NR2C2 Antibody 31N37 by WB in mouse skin tissue. Western blot analysis of mouse skin tissue lysate using NR2C2 Antibody 31N37 at a 1:4000 dilution for 1 hour at room temperature. The predicted molecular weight of NR2C2 is approximately 65-67 kDa, corresponding to two reported isoforms of the nuclear receptor. The immunoreactive signal is faint in the supplied image, limiting assessment of band intensity and specificity. This TR4 Monoclonal Antibody targets testicular receptor 4, a transcriptional regulator involved in development, metabolism, and cellular homeostasis.



NR2C2 Antibody 31N37 by WB in two lysate samples. Western blot analysis using NR2C2 Antibody 31N37 at a 1:4000 dilution for 1 hour at room temperature. Both lanes show prominent immunoreactive bands migrating near 65-70 kDa, consistent with the predicted NR2C2 molecular weight of 65-67 kDa. Additional weaker bands are visible at lower molecular weights. The supplied datasheet caption does not identify the samples represented by each lane. This TR4 Monoclonal Antibody recognizes NR2C2, an orphan nuclear receptor that regulates transcriptional programs associated with metabolism and development.



NR2C2 Antibody 31N37 by WB showing TR4 protein detection. Western blot analysis using NR2C2 Antibody 31N37 at a 1:4000 dilution for 1 hour at room temperature. Both lanes exhibit strong immunoreactive bands near 65-70 kDa, consistent with the predicted NR2C2 molecular weight of 65-67 kDa. Weaker additional bands are visible below the principal signal. The original datasheet caption does not specify the sample identities. This TR4 Monoclonal Antibody, clone 31N37, detects a nuclear receptor involved in transcriptional regulation, reproductive development, and metabolic signaling.

Description

NR2C2 Antibody 31N37 recognizes nuclear receptor subfamily 2 group C member 2 (NR2C2), a transcription factor also known as testicular receptor 4 (TR4). This protein belongs to the nuclear receptor superfamily and functions as an orphan nuclear receptor, meaning that its physiological ligand has not been conclusively established. NR2C2 regulates gene expression through interactions with specific DNA response elements and transcriptional cofactors. Although originally associated with reproductive biology, TR4 participates in diverse processes involving metabolism, cellular differentiation, and development.

NR2C2 contains a conserved DNA-binding domain with two zinc finger motifs, a hinge region, and a C-terminal ligand-binding domain. These structural features enable the receptor to recognize regulatory DNA sequences and interact with proteins that influence transcription. Depending on the target gene and cellular environment, NR2C2 can function as either a transcriptional activator or repressor. Its regulatory activity involves interactions with coactivators, corepressors, and chromatin-associated proteins that influence the accessibility of target genes.

TR4 Monoclonal Antibody is relevant to investigations of metabolic regulation and nuclear receptor signaling. NR2C2 participates in transcriptional programs associated with glucose homeostasis, lipid metabolism, and energy balance. Through its interactions with other regulatory proteins, TR4 helps coordinate metabolic gene expression with physiological

conditions. Its activity has also been linked to cellular stress responses, mitochondrial regulation, and mechanisms that maintain metabolic homeostasis.

In reproductive biology, NR2C2 contributes to testicular development, germ cell differentiation, and the regulation of genes involved in reproductive function. The receptor also participates in nervous system development, where it influences neuronal differentiation and transcriptional programs important for brain function. In cancer research, altered TR4 activity has been associated with changes in cell proliferation, differentiation, and tumor progression. These effects are context-dependent, reflecting the diverse transcriptional networks regulated by NR2C2 in different tissues.

NSJ Bioreagents provides NR2C2 Antibody 31N37 as a recombinant rabbit monoclonal reagent for investigating this orphan nuclear receptor. Recombinant monoclonal antibody production offers a defined antibody sequence and supports consistency between manufacturing batches. Research into NR2C2 continues to clarify how nuclear receptor signaling integrates developmental and metabolic signals with transcriptional regulation. An NR2C2 Antibody 31N37 can support studies of TR4-dependent gene regulation, reproductive biology, and metabolic signaling.

For additional NR2C2 research, explore our NR2C2 Antibody, a polyclonal antibody with WB, IHC, IF, and IP validation.

Application Notes

Optimal dilution of the NR2C2 Antibody 31N37 / TR4 Monoclonal Antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human NR2C2 / TR4 was used as the immunogen for the NR2C2 Antibody 31N37.

Storage

Store the NR2C2 Antibody 31N37 at -20oC.

Alternate Names

Testicular Receptor 4 antibody, Nuclear Receptor Subfamily 2 Group C Member 2 antibody, Nuclear Receptor TR4 antibody, Orphan Nuclear Receptor TR4 antibody, Testicular Nuclear Receptor 4 antibody

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