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NR2C1 Rabbit pAb

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Catalog # AP56592

Product Information

Application	WB
Primary Accession	P13056
Reactivity	Mouse
Predicted	Human, Rat, Chicken, Horse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67315
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NR2C1
Epitope Specificity	131-230/603
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Nucleus > PML body. Recruited by HDAC3, after all-trans retinoic acid stimulated MAPK1-mediated Thr-223 phosphorylation, to PML bodies for subsequent sumoylation.
SIMILARITY	Belongs to the nuclear hormone receptor family. NR2 subfamily. Contains 1 nuclear receptor DNA-binding domain.
Post-translational modifications	Sumoylation requires both PIAS1 and UBE2I. Sumoylation appears to dissociate NR2C1 from the PML nuclear bodies. Enhances the interaction with NRIP1 but inhibits interaction with KAT2B. In proliferating cells, stimulation by all-trans retinoic acid, activation of MAPK1-mediated phosphorylation and recruitment to PML bodies with subsequent sumoylation, suppresses OCT4 expression. Phosphorylated on several serine and threonine residues. Phosphorylation on Thr-222, stimulated by all-trans retinoic acid (atRA) mediates PML location and sumoylation in proliferating cells which then modulates its association with effector molecules, KAT2B and NRIP1. Phosphorylation on Ser-581 by PKC is important for protein stability and function as activator of RARB.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Orphan nuclear receptor. Binds the IR7 element in the promoter of its own gene in an autoregulatory negative feedback mechanism. Primarily repressor of a broad range of genes. Binds to hormone response elements (HREs) consisting of two 5'-AGGTCA-3' half site direct repeat consensus sequences. Together with NR2C2, forms the core of the DRED (direct repeat erythroid-definitive) complex that represses embryonic and fetal globin transcription. Also activator of OCT4 gene expression. May be involved in stem cell proliferation and differentiation. Mediator of retinoic acid-regulated preadipocyte proliferation.

Additional Information

Gene ID	7181
Other Names	Nuclear receptor subfamily 2 group C member 1, Orphan nuclear receptor TR2, Testicular receptor 2, NR2C1, TR2
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

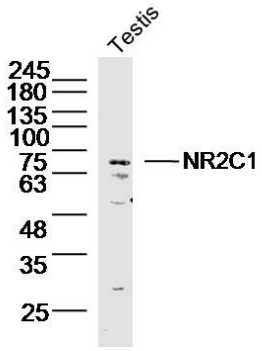
Name	NR2C1
Synonyms	TR2
Function	Orphan nuclear receptor. Binds the IR7 element in the promoter of its own gene in an autoregulatory negative feedback mechanism. Primarily repressor of a broad range of genes. Binds to hormone response elements (HREs) consisting of two 5'-AGGTCA-3' half site direct repeat consensus sequences. Together with NR2C2, forms the core of the DRED (direct repeat erythroid-definitive) complex that represses embryonic and fetal globin transcription. Also activator of OCT4 gene expression. May be involved in stem cell proliferation and differentiation. Mediator of retinoic acid-regulated preadipocyte proliferation.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00407}. Nucleus, PML body. Note=Recruited by HDAC3, after all- trans retinoic acid stimulated MAPK1-mediated Thr-223 phosphorylation, to PML bodies for subsequent sumoylation.

Background

Orphan nuclear receptor. Binds the IR7 element in the promoter of its own gene in an autoregulatory negative feedback mechanism. Primarily repressor of a broad range of genes. Binds to hormone response elements (HREs) consisting of two 5'-AGGTCA-3' half site direct repeat consensus sequences. Together with NR2C2, forms the core of the DRED (direct repeat erythroid-definitive) complex that represses embryonic and fetal globin transcription. Also activator of OCT4 gene expression. May be involved in stem cell proliferation and differentiation. Mediator of retinoic acid-regulated preadipocyte proliferation.

Images

Sample: Testis (Mouse) Lysate at 40 ug
Primary: Anti-NR2C1 (AP56592) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 67 kD
Observed band size: 67 kD



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.