

For Research Use Only

NR4A3 Polyclonal antibody

Catalog Number: 55405-1-AP

2 Publications



Basic Information

Catalog Number:

55405-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 260 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_006981

GeneID (NCBI):

8013

UNIPROT ID:

Q92570

Full Name:

nuclear receptor subfamily 4, group A, member 3

Calculated MW:

70 kDa

Observed MW:

68 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse

Cited Species:

human, rat

Positive Controls:

WB: mouse thymus tissue, mouse spleen tissue

IF/ICC: ROS1728 cells,

Background Information

Nuclear receptor 4A3 (NR4A3, also known as NOR-1), NR4A1 and NR4A2 are TFs belonging to NR4A orphan nuclear receptor subfamily. The role of all three NR4A members in regulating gene expression involved in cell proliferation, differentiation, apoptosis, inflammation and metabolism in cardiovascular diseases has been widely studied. In osteoblasts, NR4A receptor has been proved to regulate the expression and differentiation of osteoblast genes. It is reported that NR4A receptor is highly expressed in human coronary atherosclerotic lesions, and NR4A3 deficiency can reduce the proliferation and migration of VSMCs and the formation of neointima after vascular injury. Therefore, NR4A3 may play an important role in mediating phenotypic transformation of VSMC (PMID: 38629274). It is expected to be located in nucleus. The protein has three isoforms, isoform alpha is highly expressed in skeletal muscle. Isoform beta is highly expressed in skeletal muscle and low expressed in fetal brain and placenta. The calculated molecular weight of NR4A3 is 68 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Si-Kuan Zheng	38943627	Aging (Albany NY)	WB, IHC
Peter N Ellsworth	38392328	Biology (Basel)	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

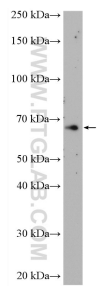
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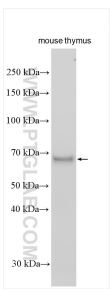
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Selected Validation Data



mouse spleen tissue were subjected to SDS PAGE followed by western blot with 55405-1-AP (NR4A3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 55405-1-AP (NR4A3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed ROS1728 cells using NR4A3 antibody (55405-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).