

For Research Use Only

# Nurr1/NR4A2 Monoclonal antibody

Catalog Number: 66878-1-Ig

Featured Product

6 Publications



## Basic Information

Catalog Number:

66878-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 503 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG1418

GenBank Accession Number:

BC009288

GeneID (NCBI):

4929

UNIPROT ID:

P43354

Full Name:

nuclear receptor subfamily 4, group A, member 2

Calculated MW:

66 kDa

Observed MW:

67 kDa

Purification Method:

Protein G purification

CloneNo.:

1H5B4

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : Jurkat cells, Ramos cells, Daudi cells, HT-29 cells, Raji cells

IHC : human prostate cancer tissue,

## Background Information

NR4A2 belongs to the orphan nuclear receptor (NR) family referred to as NR4A family, which have been implicated in cell cycle regulation, apoptosis, inflammation, metabolism and more recently in carcinogenesis [PMID:22583411]. NR4A2 also has a role in the expression of several proteins that are necessary for the synthesis and regulation of DA, such as tyrosine hydroxylase, DA transporter, vesicular monoamine transporter 2, and cRET [PMID:22294735]. Act as a transcriptional regulator, NR4A2 is essential for the differentiation and maintenance of meso-diencephalic mdDA neurons during development. It is crucial for expression of a set of genes such as SLC6A3, SLC18A2, TH and DRD2 which are essential for development of mdDA neurons [PMID: 17184956].

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhi Jiang	36228967	Mol Cell Neurosci	WB, IHC
Wenzhou Liu	35083277	Front Mol Biosci	WB
Qiong-Zi He	36569276	World J Gastroenterol	WB

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

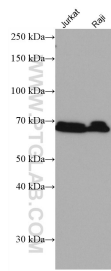
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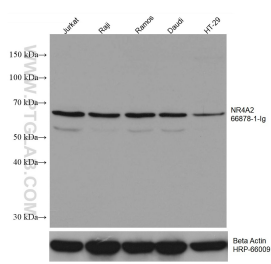
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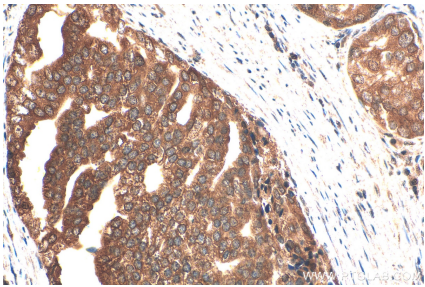
Selected Validation Data



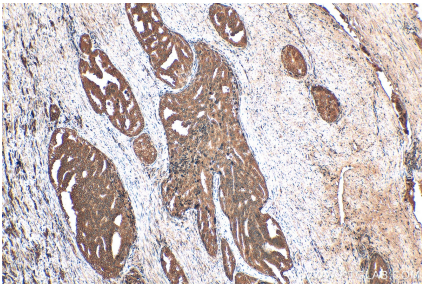
Various lysates were subjected to SDS PAGE followed by western blot with 66878-1-Ig (Nurr1/NR4A2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 66878-1-Ig (Nurr1/NR4A2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66878-1-Ig (Nurr1/NR4A2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66878-1-Ig (Nurr1/NR4A2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).