

For Research Use Only

# Nurr1/NR4A2 Polyclonal antibody

Catalog Number: 10975-2-AP **18 Publications**



## Basic Information

<b>Catalog Number:</b> 10975-2-AP	<b>GenBank Accession Number:</b> BC009288	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4929	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P43354	
<b>Isotype:</b> IgG	<b>Full Name:</b> nuclear receptor subfamily 4, group A, member 2	
<b>Immunogen Catalog Number:</b> AG1418	<b>Calculated MW:</b> 66 kDa	
	<b>Observed MW:</b> 66 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : COLO 320 cells, fetal human brain tissue, SH-SY5Y cells, A431 cells, HUVEC cells IHC : human gliomas tissue,
<b>Cited Applications:</b> WB, IF, IHC, ChIP	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, rat, mouse	

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

## 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 dopaminergic (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
Xiaoxuan Zhai	36184541	Int Heart J	WB
Guoqing Sun	36138991	Brain Sci	WB
Jian Huang	36089218	Brain Behav Immun	WB,IF

## Storage

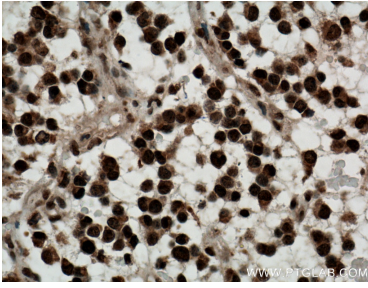
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

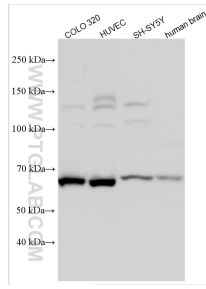
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 10975-2-AP (Nurr1/NR4A2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 10975-2-AP (Nurr1/NR4A2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.