

For Research Use Only

Nurr1/NR4A2 Polyclonal antibody

Catalog Number:10975-2-AP **28 Publications**



Basic Information

Catalog Number: 10975-2-AP	GenBank Accession Number: BC009288	Purification Method: Antigen affinity purification
Concentration: 700 ug/ml	GeneID (NCBI): 4929	Recommended Dilutions: WB: 1:1000-1:4000
Source: Rabbit	UNIPROT ID: P43354	IHC: 1:50-1:500
Isotype: IgG	Full Name: nuclear receptor subfamily 4, group A, member 2	IF-P: 1:200-1:800
Immunogen Catalog Number: AG1418	Calculated MW: 66 kDa	IF/ICC: 1:500-1:2000
	Observed MW: 66 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA	Positive Controls: WB : COLO 320 cells, fetal human brain tissue, SH-SY5Y cells, A431 cells, HUVEC cells
Cited Applications: WB, IHC, IF, CHIP	IHC : human gliomas tissue,
Species Specificity: human	IF-P : Customer Sample customer,
Cited Species: human, mouse, rat, monkey	IF/ICC : HeLa cells,

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

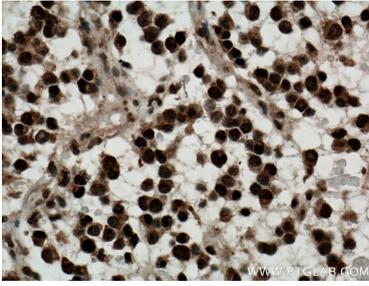
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

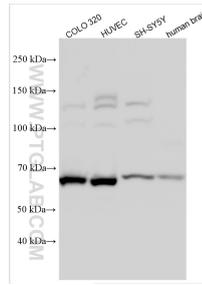
For technical support and original validation data for this product please contact:
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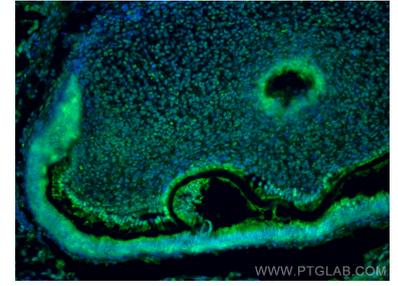
Selected Validation Data



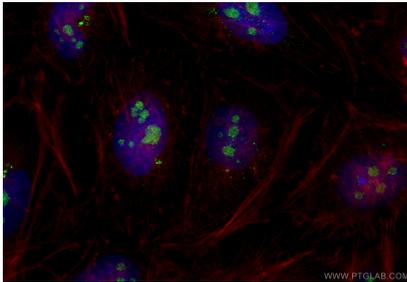
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 10975-2-AP (Nurr1/NR4A2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded Customer Sample customer using Nurr1/NR4A2 antibody (10975-2-AP) at dilution of 1:400 and Multi-Ab CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Nurr1/NR4A2 antibody (10975-2-AP) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).