

For Research Use Only

# NEDD8 Polyclonal antibody

Catalog Number: 16777-1-AP

Featured Product

8 Publications



## Basic Information

<b>Catalog Number:</b> 16777-1-AP	<b>GenBank Accession Number:</b> BC104664	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 600 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4738	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:250-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q15843	
<b>Isotype:</b> IgG	<b>Full Name:</b> neural precursor cell expressed, developmentally down-regulated 8	
<b>Immunogen Catalog Number:</b> AG10154	<b>Calculated MW:</b> 81 aa, 9 kDa	
	<b>Observed MW:</b> 6-10 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF	<b>WB:</b> mouse brain tissue, human heart tissue
<b>Species Specificity:</b> human, mouse, rat, monkey	<b>IHC:</b> human prostate cancer tissue,
<b>Cited Species:</b> 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**

## Background Information

NEDD8 (neural precursor cell-expressed developmentally down-regulated gene 8) is a small ubiquitin-like protein that shares 60% sequence identity and 80% homology with ubiquitin [PMID:9353319]. NEDD8 is conjugated to substrate proteins in a process known as neddylation. NEDD8 forms a thioester bond with APPBP1-Uba3, the E1 enzyme. Activated NEDD8 then transfers to Ubc12, the E2 enzyme. Ultimately, E2 loaded with NEDD8 binds a substrate protein lysine residue and forms an isopeptide bond by E3 ligase [PMID:18802447].

## Notable Publications

Author	Pubmed ID	Journal	Application
Kaile Zhang	32478052	Front Bioeng Biotechnol	WB
Lu Boxun B	23525043	Nat Neurosci	
Gonca Bayraktar	32726795	Neuropsychopharmacology	IF, WB

## Storage

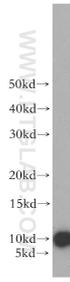
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

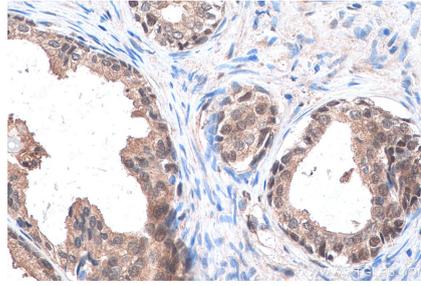
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 16777-1-AP (NEDD8 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 16777-1-AP (NEDD8 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).