

For Research Use Only

# NEDD8 Polyclonal antibody

Catalog Number: 16777-1-AP

Featured Product

4 Publications



## Basic Information

**Catalog Number:**

16777-1-AP

**Size:**

600 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG10154

**GenBank Accession Number:**

BC104664

**GeneID (NCBI):**

4738

**UNIPROT ID:**

Q15843

**Full Name:**

neural precursor cell expressed,  
developmentally down-regulated 8

**Calculated MW:**

81 aa, 9 kDa

**Observed MW:**

6-10 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IHC 1:20-1:200

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human, mouse, rat, monkey

**Cited Species:**

human, 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 : mouse brain tissue, human heart tissue

IHC : human colon cancer tissue,

## 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

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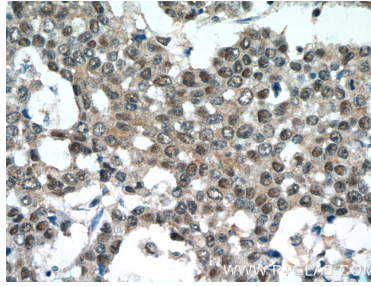
W: ptgcn.com

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## 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 colon cancer tissue slide using 16777-1-AP (NEDD8 Antibody) at dilution of 1:50 (under 40x lens).