



Qty: 100 µg/400 µl

Rabbit anti-NEDD8

Catalog No. 34-1400

Lot No. See product label

Rabbit anti-NEDD8

FORM

This polyclonal antibody is supplied as a 400 µl aliquot at a concentration of 0.25 mg/ml in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. The antibody is epitope-affinity-purified from rabbit antiserum.

PAD: Z32.HJ

IMMUNOGEN

Synthetic peptide derived from the N-terminal sequence of human NEDD8.

SPECIFICITY

This antibody is specific for the human NEDD8 protein.

REACTIVITY

Reactivity has been confirmed with EGF-stimulated A431 cell lysate.

Sample	Western Blotting	ELISA
Human	++	ND
Mouse	ND	ND
Immunogen	ND	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.1-1.0 µg/ml
Western Blotting: 1-3 µg/ml

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long term storage. Avoid repeated freezing and thawing.

BACKGROUND

NEDD8 is a novel 81 amino acid polypeptide which is 60% identical and 80% homologous to ubiquitin^(1,2). Ubiquitin is one of the most conserved eukaryotic proteins that can be conjugated to other proteins through a well defined enzymatic pathway. The importance of ubiquitination is underscored by its involvement in antigen processing, cell cycle regulation, degradation of tumor suppressors, receptor endocytosis, and signal transduction. This ubiquitin pathway involves three major enzymes and substrates. NEDD8 has been shown to activate and transfer to other proteins in a process analogous to ubiquitination.⁽³⁾ The NEDD8 message was developmentally down-regulated, and protein expression was highly enriched in the nucleus and weaker in the cytosol, whereas ubiquitin expression was detected equally well in the nucleus and cytosol⁽³⁾. This antibody has been shown to detect a 6-kDa NEDD8 monomer as well as a series of NEDD8 multimers (~14kDa) or NEDD8-conjugated proteins (~90kDa).

(cont'd)

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PI341400

(Rev 10/08) DCC-08-1089

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REFERENCES

1. Kumar, S Y, Cloning of a cDNA which encodes a novel ubiquitin-like protein. *Biochem Biophys Res Commun* 195(1): 393-399 (1993).
2. Kumar, S Y, Identification of a set of genes with developmentally down-regulated expression in the mouse brain. *Biochem Biophys Res Commun* 185(3): 1155-61 (1992).
3. Kamitani, T., et al. Characterization of NEDD8, a developmentally down-regulated ubiquitin-like protein. *J Biol Chem* 272(45): 28557-62 (1997).

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Rabbit anti-Claudin-1	JAY.8	51-9000
Mouse anti-GMP-1(SUMO-1)	21C7	33-2400
Rabbit anti-Sentrin-2 (SUMO-3)	NRD.1	51-9100
Mouse anti-SKP2 (p45)	SKP2-8D9	32-3300
Mouse anti-SKP2 (P45)	SKP2-2B12	32-3400
Mouse anti-Ubiquitin	Ubi-1	13-1600
Mouse anti-UBC3	2E3B5	32-2000
Rabbit anti-UBC3	HC34	71-9900
Rabbit x UNP	CSM-11	71-8900
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

*PAD: Polyclonal Antibody Designation

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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