Datasheet for ABIN106594

anti-NEDD8 antibody

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Overview

Quantity:	500 µg
Target:	NEDD8
Reactivity:	Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NEDD8 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Rub1 Antibody was prepared from rabbit serum after repeated immunizations with full-length recombinant yeast Rub1 protein. Immunogentype:Recombinant
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	NEDD8
Alternative Name:	Rub1 (NEDD8 Products)
Background:	Ubiquitin-like proteins fall into two classes: the first class, ubiquitin-like modifiers (UBL's) function as modifiers in a manner analogous to that of ubiquitin. Examples of UBL's are SUMO, Rub1 (also called Nedd8), Apg12, and Hub1. Proteins of the second class include parkin,

Target Details

	RAD23, and DSK2, and are designated ubiquitin-domain proteins (UDP's). These proteins contain domains that are related to ubiquitin but are otherwise unrelated to each other. In contrast to UBL's, UDP's are not proteolytically processed or conjugated to other proteins. Rub1, and the corresponding human homolog Nedd8, are activated by the E1 ubiquitin-activating enzyme UBA2, which forms isopeptide linkages between thioesters. Nedd8 shows 80% homology to ubiquitin. The best known targets of Rub1 modification are members of the cullin family. Cullins are subunits of an E3-ubiquitin ligase complex called the Skp1/Cul1/Cdc53-F-box (SCF). The SCF promotes transfer of ubiquitin from a ubiquitin conjugating enzyme (E2) to the target protein. Rub1 modification may regulate SCF function or localization. Synonyms: NEDD8-like protein RUB1, Ubiquitin-like protein RUB1
Gene ID:	851717
UniProt:	Q03919
Pathways:	Ubiquitin Proteasome Pathway

Application Details

Application Notes:	Rub1 Antibody is deected as a 6 kDa band corresponding to yeast Rub1in immunoblotting. Most yeast cell lysates can be used as a positive control without induction or stimulation.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Restore with deionized water (or equivalent)
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Publications

Product cited in:	Hawryluk-Gara, Shibuya, Wozniak: "Vertebrate Nup53 interacts with the nuclear lamina and is required for the assembly of a Nup93-containing complex." in: **Molecular biology of the cell**, Vol. 16, Issue 5, pp. 2382-94, (2005) (PubMed).

Images

Western Blotting

Image 1. Anti-Rub1 antibody, generated by immunization with full-length, recombinant yeast Rub1, was tested by western blot against a yeast cell lysate. A dilution of the antibody between 1:200 and 1:1,000 will show strong reactivity specifically with free Rub1 protein (indicated by arrow) and Rub1 conjugates. In this blot, the antibody was used at a 1:500 dilution and was incubated overnight at 4° C in 5% non-fat dry milk in TTBS. Detection occurred using a 1:2000 dilution of HRP-labeled Donkey anti-Rabbit IgG (code # 611-703-127) for 1 hour at room temperature. A chemiluminescence system was used for signal detection (Roche). Other detection systems will yield similar results.