

Recombinant human NEDD4 protein ab95927

2 图像

描述

产品名称	重组人NEDD4蛋白
生物活性	Specific Activity: 0.0027 pmol/min/μg. Assay conditions: 50 μl reaction mix (4mM ATP, 5mM MgCl ₂ , 1mM DTT, E1 (0.5 μg), E2 (2.8 μg), Biotin-Ubiquitin (0.5 μg) and NEDD4 (0-2 μg) in 50mM Tris pH 7.4) incubate for 30min at 37°C, then add to streptavidin coated plates and incubate for 30min at 37°C. Add antibody against NEDD4, incubate 1h. Finally, incubate 1h with the Europium-labeled secondary antibody. Time resolved fluorescence measured at room temperature (Lambda exc=330 nm, Lambda em=620 nm). Specific Activity: 0.0027 pmol/min/μg. Assay conditions: 50 μl reaction mix (4mM ATP, 5mM MgCl ₂ , 1mM DTT, E1 (0.5 μg), E2 (2.8 μg), Biotin-Ubiquitin (0.5 μg) and NEDD4 (0-2 μg) in 50mM Tris pH 7.4) incubate for 30min at 37°C, then add to streptavidin coated plates and incubate for 30min at 37°C. Add antibody against NEDD4, incubate 1h. Finally, incubate 1h with the Europium-labeled secondary antibody. Time resolved fluorescence measured at room temperature (Lambda exc=330 nm, Lambda em=620 nm).
纯度	> 60 % SDS-PAGE. Affinity purified.
表达系统	Baculovirus infected insect cells
Accession	<u>P46934</u>
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
预测分子量	86 kDa including tags
氨基酸	150 to 900
标签	DDDDK tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab95927** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE Functional Studies
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形式 Liquid

制备和贮存

稳定性和存储

Shipped on Dry Ice. Store at -80°C.

pH: 8.00

Constituents: 0.0462% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.395% Tris HCl, 0.05% Tween, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

100 µg/ml FLAG peptide

This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

功能

E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Involved in the pathway leading to the degradation of VEGFR-2/KDFR, independently of its ubiquitin-ligase activity. Monoubiquitinates IGF1R at multiple sites, thus leading to receptor internalization and degradation in lysosomes. According to PubMed:18562292 the direct link between NEDD4 and PTEN regulation through polyubiquitination described in PubMed:17218260 is questionable. Involved in ubiquitination of ERBB4 intracellular domain E4ICD. Involved in the budding of many viruses. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. Ubiquitinates TNK2 and regulates EGF-induced degradation of EGFR and TNF2.

通路

Protein modification; protein ubiquitination.

序列相似性

Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain.
Contains 4 WW domains.

结构域

The WW domains mediate interaction with LITAF, RNF11, WBP1, WBP2, TMEPAI, NDFIP1 and PRRG2.

翻译后修饰

Auto-ubiquitinated.

细胞定位

Cytoplasm. Cell membrane. Recruited to the plasma membrane by GRB10. Once complexed with GRB10 and IGF1R, follows IGF1R internalization, remaining associated with early endosomes. Uncouples from IGF1R-containing endosomes before the sorting of the receptor to the lysosomal compartment (By similarity). May be recruited to exosomes by NDFIP1.

图片

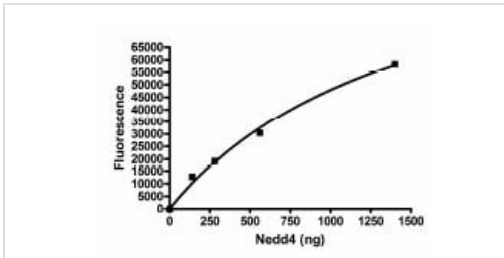
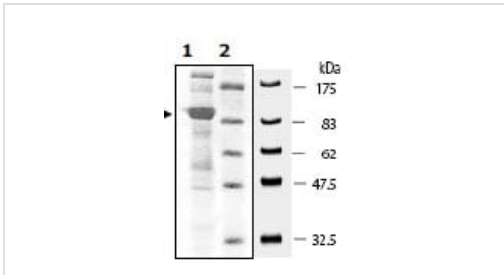


Image showing specific activity of ab95927.

Functional Studies - Recombinant human NEDD4 protein (ab95927)



10% SDS-PAGE analysis

Lane 1: ab95927 (4µg)

Lane 2: Molecular weight markers

SDS-PAGE - Recombinant human NEDD4 protein (ab95927)

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