

## E3 泛素连接酶 NEDD4 结合蛋白 1 抗体

产品货号： mlR18984

英文名称： N4BP1

中文名称： E3 泛素连接酶 NEDD4 结合蛋白 1 抗体

别 名： FLJ31821; KIAA0615; MGC176730; N4BP1; N4BP1\_HUMAN; NEDD4 binding protein 1; NEDD4-binding protein 1.

研究领域： 细胞生物 转录调节因子 表观遗传学 泛素

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Dog, Pig, Horse, Rabbit,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量： 100kDa

细胞定位： 细胞核

性 状： Lyophilized or Liquid

浓 度： 1mg/ml

**免 疫 原：** KLH conjugated synthetic peptide derived from human N4BP1:531-630/896

**亚 型：** IgG

**纯化方法：** affinity purified by Protein A

**储 存 液：** 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

**保存条件：** Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

**PubMed：** PubMed

**产品介绍：** N4BP1 is an 896 amino acid protein that belongs to the N4BP1 family. N4BP1 primarily localizes to nucleolus, however it also localizes to PML nuclear bodies when desumoylated. Detected in heart, lung, brain, liver, skeletal muscle, pancreas, kidney, spleen, testis and ovary, N4BP1 is phosphorylated upon DNA damage probably by ATM or ATR. N4BP1 interacts with Nedd4, a protein with a wide range of activities including modification of ubiquitin-protein ligase, regulation of membrane channels and potentiating hormone-dependent activation of transcription. N4BP1 inhibits the E3 ubiquitin-protein ligase ITCH, by interacting with the second WW domain of ITCH thereby competing with ITCH's substrates and impairing ubiquitination of substrates. N4BP1 has no obvious transmembrane regions, which raises the possibility that N4BP1 represents a soluble adaptor that could sequester ITCH within the cytosol. The N4BP1 gene maps to chromosome 16q12.1.

**Function:**

Inhibitor of the E3 ubiquitin-protein ligase ITCH. Acts by interacting with the second WW domain of ITCH, leading to compete with ITCH's substrates and impairing ubiquitination of substrates.

**Subcellular Location:**

Nucleus; nucleolus. Nucleus; PML body. Primarily localizes to the nucleolus. Also localizes to the PML nuclear bodies, when desumoylated.

**Tissue Specificity:**

Detected in heart, lung, brain, liver, skeletal muscle, pancreas, kidney, spleen, testis and ovary.

**Post-translational modifications:**

Monoubiquitinated by NEDD4. Polyubiquitinated, leading to its degradation by the proteasome. Sumoylated by SUMO1, abrogating polyubiquitination and subsequent degradation. Desumoylated by SENP1, leading to accumulation in PML nuclear bodies.

Phosphorylated upon DNA damage, probably by ATM or ATR.

**Similarity:**

Belongs to the N4BP1 family.

**SWISS:**

O75113

**Gene ID:**

9683

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.