

肽基脯氨酞顺反异构酶 Pinl 抗体

产品货号: mlR3541

英文名称: Pin1

中文名称: 肽基脯氨酞顺反异构酶 Pinl 抗体

别 名: DOD; NIMA interacting 1; Peptidyl prolyl cis trans isomerase NIMA interacting 1; Peptidyl prolyl cis/trans isomerase NIMA interacting; Pin 1; PPlase Pin1; Prolyl isomerase; Protein (peptidylprolyl cis/trans isomerase) NIMA interacting 1; Protein NIMA interacting 1; Rotamase Pin1; UBL 5; UBL5; PIN1_HUMAN.

研究领域: 肿瘤 免疫学 神经生物学 信号转导 细胞凋亡 转录调节因子 激酶和磷酸酶

抗体来源: Rabbit

克隆类型: Polyclonal

交叉反应 : Human, Mouse, Rat, Dog, Pig, Cow, Horse, Sheep,

产品应用: WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 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: 18kDa

细胞定位: 细胞核 细胞浆

性 状: Lyophilized or Liquid

浓 度: 1mg/ml



免疫原: KLH conjugated synthetic peptide derived from human Pin1:56-163/163

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 $^{\circ}$ 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 $^{\circ}$ 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 $^{\circ}$ C.

PubMed: PubMed

产品介绍: Pin1 is a Peptidyl-prolyl isomerases (PPlase). Peptidyl-prolyl isomerases (PPlase) facilitate the cistrans interconversion of the peptidyl-prolyl bond thereby affecting protein folding. Pin1 is a PPlase which specifically recognizes phosphorylated S/T-P bonds.

Pin1 has been implicated in tau pathologies that underlie Alzheimer's Disease. Pin1 binds to tau phosphorylated specifically on the Thr231-Pro site and induces conformational changes in tau. Such conformational changes can directly restore the ability of phosphorylated Tau to bind microtubules and promote microtubule assembly and/or facilitate tau dephosphorylation. Pin1 expression inversely correlates with the predicted neuronal vulnerability in normally aged brain and also with actual neurofibrillary degeneration in AD brain. Pin1 could be pivotal for maintainance of normal neuronal function and preventing age-dependent neurodegeneration.

Function:

Essential PPlase that regulates mitosis presumably byinteracting with NIMA and attenuating its mitosis-promotingactivity. Displays a preference for an acidic residue N-terminal tothe isomerized proline bond. Catalyzes pSer/Thr-Pro cis/transisomerizations. Down-regulates kinase activity of BTK. Cantransactivate multiple oncogenes and induce centrosomeamplification, chromosome instability and cell transformation. Required for the efficient dephosphorylation and recycling of RAF1after mitogen activation.

Subunit:



Interacts with STIL (By similarity). Interacts with KIF20B. Interacts with NEK6. Interacts (via WW domain) with PRKX.Interacts with BTK. Interacts (via PpiC domain) with DAPK1.Interacts with the phosphorylated form of RAF1. Interacts (via WWdomain) with ATCAY; upon NGF stimulation.

Subcellular Location:

Nucleus. Nucleus speckle. Cytoplasm.Note=Co-localizes with NEK6 in the nucleus. Mainly localized in thenucleus but phosphorylation at Ser-71 by DAPK1 results ininhibition of its nuclear localization.

Tissue Specificity:

The phosphorylated form at Ser-71 is expressed in normal breast tissue cells but not in breast cancer cells.

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR.Phosphorylation at Ser-71 by DAPK1 results in inhibition of itscatalytic activity, nuclear localization, and its ability to inducecentrosome amplification, chromosome instability and celltransformation.

Similarity:

Contains 1 PpiC domain.

Contains 1 WW domain.

SWISS:

Q13526

Gene ID:

5300



Important Note:

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

肽基脯氨酞顺反异构酶 Pinl,是调节细胞有丝分裂相关蛋白酶,对细胞周期运行起着非常重要的调控作用。近年来研究表明,肽基脯氨酞顺反异构酶 Pinl 在多种肿瘤中过表达,是多个致癌信号通路的关键效应分子,可加强和催化多种致癌信号,使其无限放大,最终引起细胞转化和增殖失控。因次,肽基脯氨酞顺反异构酶 Pinl 越来越引起人们关注,被称为肿瘤发生发展的催化分子。 近来该蛋白用于老年痴呆研究的也日渐增多。