微管蛋白聚合促进蛋白 24

产品货号： mlR11674

英文名称： TPPP

中文名称： 微管蛋白聚合促进蛋白 24

别　　名： Tubulin Polymerization Promoting Protein 24; 25 kDa brain specific protein; 25 kDa brain-specific protein; Brain specific protein p25 alpha; Glycogen synthase kinase 3 (GSK3) inhibitor p24; p24; p25; p25-alpha; p25alpha; TPPP; TPPP/p25; TPPP_HUMAN; TPPP1; Tubulin polymerization promoting protein; Tubulin polymerization-promoting protein.

研究领域： 神经生物学　信号转导　细胞骨架　细胞外基质

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Chicken, Dog, Pig, Cow,

产品应用： WB=1:500-2000 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： 24kDa

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 TPPP:61-150/219

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： Tubulin family members are globular proteins important in the assembly of microtubules. Microtubules are structural components that play important roles in mitosis, cytokinesis and vesicle transport. TPPP (Tubulin polymerization-promoting protein), also known as p24 and p25, is a widely expressed 219 amino acid protein found in the perinuclear region of the cytoplasm. TPPP may form dimers and functions in polymerizing tubulin into double-walled tubules, polymorphic aggregates, or stabilized blocks. TPPP overexpression prevents formation of the mitotic spindle assembly and breakdown of the nuclear envelope. TPPP is phosphorylated by TPK II and is encoded by a gene that maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome.

Function:

May play a role in the polymerization of tubulin into microtubules, microtubule bundling and the stabilization of existing microtubules, thus maintaining the integrity of the microtubule network. May play a role in mitotic spindle assembly and nuclear envelope breakdown.

Subunit:

Homodimer. Binds tubulin; binding is inhibited by GTP (By similarity). Interacts with GSK3 (By similarity). Interacts with MAPK1 (By similarity). Interacts with GAPDH; the interaction is direct (By similarity). Interacts with LIMK1 (via the PDZ domain); the interaction is direct.

Subcellular Location:

Cytoplasm. Cytoplasm, cytoskeleton. Nucleus. Note=Localizes to glial Lewy bodies in the brains of individuals with synucleinopathies.

Tissue Specificity:

Widely expressed.

Post-translational modifications:

Poor substrate for GSK3 (By similarity). Phosphorylated by LIMK1 on serine residues. Phosphorylation may alter the tubulin polymerization activity.

Similarity:

Belongs to the TPPP family.

SWISS:

O94811

Gene ID:

11076

Important Note:

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

产品图片