

Human Tubulin polymerization-promoting protein (TPPP) ELISA Kit

Catalog No: #EK6025

Orders: order@signalwayantibody.com

Package Size: #EK6025-1 48T #EK6025-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Tubulin polymerization-promoting protein (TPPP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	TPPP/p25; TPPP1; p24; p25; p25alpha; brain specific protein p25 alpha glycogen synthase kinase 3 (GSK3) inhibitor p24 tubulin polymerization-promoting protein
Accession No.	O94811
Uniprot	O94811
GeneID	11076;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.128 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate TPPP in samples. An antibody specific for TPPP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTPPP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPPP is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TPPP bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Seki et al. (1999) cloned p25 from a neuroblastoma cDNA library. The deduced 219-amino acid protein has a calculated molecular mass of about 24 kD. Human and bovine p25 share 90% amino acid identity. In contrast to the brain-specific expression of bovine p25, RT-PCR detected human p25 in all tissues examined.Martin et al. (2002) found that p24 associated with Gsk3 in microtubules from adult rat brain. p24 bound Gsk3 and inhibited its kinase activity at low magnesium concentrations. p24 was a poor substrate for Gsk3, but it could be phosphorylated by other protein kinases. Bovine Tppp inhibited mitotic spindle assembly and nuclear envelope breakdown following injection into Drosophila embryos. It did not affect other cellular events.

Note: This product is for in vitro research use only