

Mouse Tubulin alpha-4A chain (TUBA4A) ELISA Kit

Catalog No: #EK5970



Package Size: #EK5970-1 48T #EK5970-2 96T

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Description

Product Name	Mouse Tubulin alpha-4A chain (TUBA4A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	FLJ30169; H2-ALPHA; TUBA1; tubulin alpha-1 chain tubulin; alpha 1 (testis specific)
Accession No.	P68368
Uniprot	P68368
GeneID	22145;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.124 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:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TUBA4A in samples. An antibody specific for TUBA4A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTUBA4A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TUBA4A 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 TUBA4A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**By searching a skeletal muscle EST database, followed by PCR screening of a muscle cDNA library, Stanchi et al. (2000) isolated a cDNA encoding TUBA8. The deduced 449-amino acid protein is 99% identical to the mouse sequence. Quantitative RT-PCR analysis detected TUBA8 expression primarily in heart, skeletal muscle, and testis, with lower expression in brain and pancreas. In mouse embryos, Abdollahi et al. (2009) found wide expression of Tuba8 in developing neural structures. Areas included the cortical preplate, cingulate cortex, hypothalamus, hippocampus, olfactory bulb, and cerebellum. The distribution suggested that Tuba8 has a role in neuronal migration of deep-layer neurons as well as of the cortical plate. Studies of a fusion human TUBA8 protein in cell culture indicated a role in microtubule assembly.

Note: This product is for in vitro research use only