

Human Tubulin alpha-1B chain (TUBA1B) ELISA Kit

Catalog No: #EK5971



Package Size: #EK5971-1 48T #EK5971-2 96T

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Description

Product Name	Human Tubulin alpha-1B chain (TUBA1B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	K-ALPHA-1; alpha tubulin tubulin; alpha; ubiquitous
Accession No.	P68363
Uniprot	P68363
GeneID	10376;
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:0.31-20 ng/mL

Sensitivity:0.156 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 TUBA1B in samples. An antibody specific for TUBA1B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTUBA1B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TUBA1B 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 TUBA1B bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**TUBA1B expression was upregulated in HCC tumor tissues and proliferating HCC cells, and an increased TUBA1B expression was associated with poor overall survival and resistance to paclitaxel of HCC patients.The human counterpart of the mouse tubulin gene M-alpha-2 is the k-alpha-1 gene, cloned from a human keratinocyte cDNA library by Cowan et al. (1983). The k-alpha-1 gene encodes a predicted 451-amino acid protein that differs from the b-alpha-1 protein by only one amino acid. By Northern blotting, k-alpha-1 mRNA was expressed in all tissues tested. By Northern blot analysis and in situ hybridization, Miller et al. (1987) found that the rat homolog of k-alpha-1, which they called T26, is expressed constitutively at a low level in most or all neural cell types throughout development, with some enrichment in proliferative zones.

Note: This product is for in vitro research use only