

Recombinant Human TUBA1A, His-tagged

Cat. No. TUBA1A-31628TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 163-451 of Human TUBA1A with N terminal His tag; Predicted MWt 33 kDa.
Species	Human
Source	E.coli
ProteinLength	163-451 a.a.
Description	Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulins. The genes encoding these microtubule constituents belong to the tubulin superfamily, which is composed of six distinct families. Genes from the alpha, beta and gamma tubulin families are found in all eukaryotes. The alpha and beta tubulins represent the major components of microtubules, while gamma tubulin plays a critical role in the nucleation of microtubule assembly. There are multiple alpha and beta tubulin genes, which are highly conserved among species. This gene encodes alpha tubulin and is highly similar to mouse and rat Tuba1 gene. Northern blotting studies have shown that the gene expression is predominantly found in morphologically differentiated neurologic cells. This gene is one of three alpha-tubulin genes in a cluster on chromosome 12q.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 111 µl aqua dest.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	KKSKLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAF MVDNEAIYICRRNLDIRP TYTNLNRIGQIVSSITAS LRFDGALNVDLTFQTNLVPYPRIHFPLATYAPVISAE KA YHEQLSVAEITNACFEPANQMVKCDPRHGKYMCCCL LYRGDVVPKDVNAAIATIKT KRTIQFVDWCPTGFKVGINYQPPTVVPGGDLAKVQRAVCMLSNTTAIAEAWARLDH KF DLMYAKRAFBVHWYVGEGMEEGEFSEAREDMAALEKDYE EVGVDSVEGEGEEE GEEY

GENE INFORMATION

Gene Name	TUBA1A tubulin, alpha 1a [Homo sapiens]
Official Symbol	TUBA1A
Synonyms	TUBA1A; tubulin, alpha 1a; tubulin alpha-1A chain; B ALPHA 1; FLJ25113; TUBA3; tubulin; alpha; brain specific;
Gene ID	7846
mRNA Refseq	NM_006009
Protein Refseq	NP_006000
MIM	602529
Uniprot ID	Q71U36

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Chromosome Location	12q13.12
Pathway	Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; Chaperonin-mediated protein folding, organism-specific biosystem; Cooperation of Prefoldin and TriC/CCTin actin and tubulin folding, organism-specific biosystem; Formation of tubulin folding intermediates by CCT/TriC, organism-specific biosystem;
Function	GTP binding; GTPase activity; nucleotide binding; protein domain specific binding; structural molecule activity;

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