

Tubulin Beta (TUBb) Active Protein | TUBb active protein

Active Tubulin Beta (TUBb)

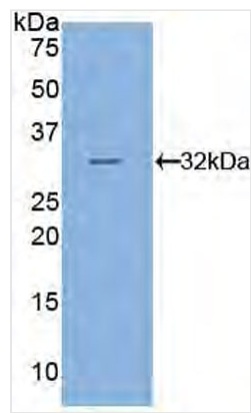
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148197	E. coli	Homo sapiens (Human)	Activity Assay, Cell Culture

PRODUCT SYNONYMS

Tubulin Beta (TUBb); Active Tubulin Beta (TUBb); TUB-B; TUBB5; TUBB1; M40; TUBb active protein

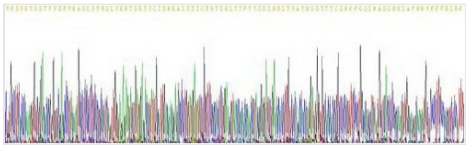
PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>95%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 400 ug/mL (varies by lot)
Applicable Applications for TUBb active protein	Activity Assay, Cell Culture
Source	Prokaryotic expression.
Residues	Val170~Val419
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1 ug (determined by the LAL method).
Predicted isoelectric point	6.6
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



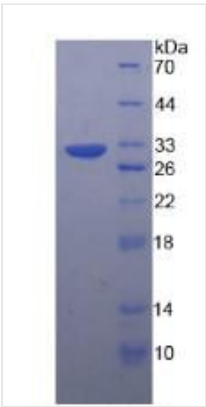
WB (Western Blot)

Figure 4. Western BlotSample: Recombinant TUBb, Human;Antibody: Rabbit Anti-Human TUBb Ab



Gene Sequencing

Gene Sequencing (extract)



SDS_PAGE

Sample: Active recombinant TUBb, Human

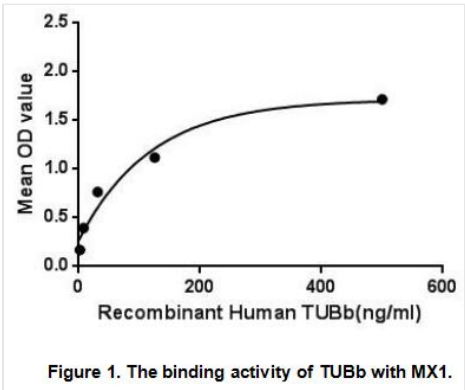


Figure 1. The binding activity of TUBb with MX1.

Bioactivity

Tubulin Beta (TUBb) in molecular biology can refer either to the tubulin protein superfamily of globular proteins, or one of the member proteins of that superfamily. It participate in many essential cellular processes, including mitosis. alpha- and beta-tubulins polymerize into microtubules, a major component of the eukaryotic cytoskeleton. Both alpha and beta tubulins have a mass of around 50kDa and are thus in a similar range compared to actin with ~42kDa. TUBb is one of six members of the tubulin superfamily, which binding drugs to kill cancerous cells by inhibiting microtubule dynamics. Besides, Myxovirus Resistance 1 (MX1) has been identified as an interactor of TUBb, thus a binding ELISA assay was conducted to detect the interaction of recombinant human TUBb and recombinant human MX1. Briefly, TUBb were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to MX1-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-TUBb pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of TUBb and MX1 was shown in Figure 1, and this effect was in a dose dependent manner.

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V PPKVSDTV EPYNATLSVH QLVENTDETY
CIDNEALYDI CFRTLKLTP TYGDLNHLVS ATMSGVTTCL RFPQQLNADL
RKLAVNMVPF PRLHFFMPGF APLTSRGSQQ YRALTVPELT QQVFDKNNMM
AACDPRHGRY LTVAAVFRGR MSMKEVDEQM LNVQKNSSY FVEWIPNNVK
TAVCDIPPRG LKMAVTFIGN STAIQELFKR ISEQFTAMFR RKAFLHWYTG
EGMDEMEFTE AESNMNDLV
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Sequence

ADDITIONAL INFORMATION

Product Categories/Family for TUBb active protein

Neuroscience; Developmental science

NCBI AND UNIPROT INFORMATION

NCBI GI #	645912968
NCBI GeneID	203068
NCBI Accession #	NP_001280141.1
NCBI GenBank Nucleotide #	NM_001293212.1
UniProt Accession #	P07437; P05218; Q8WUC1; Q9CY33
Molecular Weight	Predicted Molecular Mass: 32.1kDa Accurate Molecular Mass: 32kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	tubulin beta chain isoform a
NCBI Official Synonym Full Names	tubulin beta class I
NCBI Official Symbol	TUBB
NCBI Official Synonym Symbols	M40; TUBB1; TUBB5; CDCBM6; CSCSC1; OK/SW-cl.56
NCBI Protein Information	tubulin beta chain
UniProt Protein Name	Tubulin beta chain
UniProt Gene Name	TUBB
UniProt Synonym Gene Names	TUBB5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/tubulin-beta-tubb/148197>