

Human beta Tubulin I protein, His tag

Cat. No. GTX00175-pro

Applications	Functional Assay
Species	Human

Package

10 µg

Applications

Application Note

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. α - and β -tubulins polymerize into microtubules, a major component of the eukaryotic cytoskeleton. Both α and β 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 100 µl were then transferred to MX1-coated microtiter wells and incubated for 2h at 37°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°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of TUBb and MX1 was in a dose dependent manner.

Observed MW (kDa)	32 kDa.
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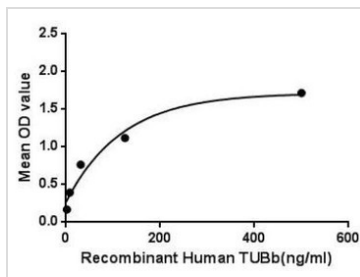
Properties

Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Val170~Val419 (NP_001280141.1)
Expression System	E. coli
Purity	> 95%
Endotoxin	< 1 EU/µg
Conjugation	Unconjugated
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

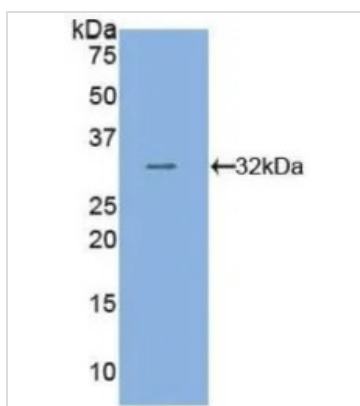


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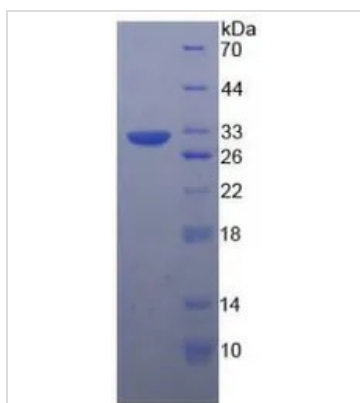
Date 2026 / 10 / 12 Page 1 of 2

DATA IMAGES

GTX00175-pro Functional Assay Image

Functional ELISA analysis of GTX00175-pro Human beta Tubulin I protein which can bind immobilized MX1 protein.


GTX00175-pro Image

WB analysis of GTX00175-pro Human beta Tubulin I protein.


GTX00175-pro Image

SDS-PAGE analysis of GTX00175-pro Human beta Tubulin I protein.



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