# HRP Conjugated Anti-beta Tubulin Antibody [1-B11] EM1701-59

Product Type: Species reactivity: Applications: Molecular Wt: Clone number:	Mouse monoclonal IgG1, primary antibodies Human, Mouse, Rat, Zebrafish WB, IHC-P Predicted band size: 50 kDa 1-B11
Description:	Tubulin is one of several members of a small family of globular proteins. The most common members of the tubulin family are $\alpha$ -tubulin and $\beta$ -tubulin. The beta-tubulin (relative molecular weight about 50 kDa) is counterpart of alpha-tubulin in tubulin heterodimer, it is coded by multiple tubulin genes and it is also posttranslationally modified. Heterogeneity of subunit is concentrated in C-terminal structural domain. Beta-Tubulin may have bound GTP or GDP. Under certain conditions $\beta$ -tubulin can hydrolyze its bound GTP to GDP plus Pi, release the Pi, and exchange the GDP for GTP.
Conjugate:	HRP-conjugated
lmmunogen:	Synthetic peptide within Human Beta tubulin aa 46-95 / 444.
Positive control:	K-562 cell lysate, Jurkat cell lysate, HeLa cell lysate, NIH/3T3 cell lysate, RAW264.7 cell lysate, C6 cell lysate, human colon cancer tissue, human kidney tissue.
Subcellular location:	Cytoplasm, Cytoskeleton.
Database links:	SwissProt: P07437 Human   P99024 Mouse   P69897 Rat
Recommended Dilutions: WB IHC-P	1:2,000-1:5,000 1:500-1:2,000
Storage Buffer:	1*PBS (pH7.4), 0.2% BSA, 50% Glycerol.
Storage Instruction:	Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.
Purity:	Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

#### Images



**Fig1:** Western blot analysis of beta Tubulin on different lysates with Mouse anti-beta Tubulin antibody (EM1701-59) at 1/2,000 dilution.

Lane 1: K-562 cell lysate Lane 2: Jurkat cell lysate Lane 3: HeLa cell lysate Lane 4: NIH/3T3 cell lysate Lane 5: RAW264.7 cell lysate Lane 6: C6 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 50 kDa Observed band size: 50 kDa

Exposure time: 20 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (EM1701-59) at 1/2,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours.



**Fig2:** Immunohistochemical analysis of paraffin-embedded human colon cancer tissue with Mouse anti-beta Tubulin antibody (EM1701-59, HRP) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (EM1701-59, HRP) at 1/2,000 dilution for 1 hour at room temperature. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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**Fig3:** Immunohistochemical analysis of paraffin-embedded human kidney tissue with Mouse anti-beta Tubulin antibody (EM1701-59, HRP) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (EM1701-59, HRP) at 1/500 dilution for 1 hour at room temperature. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

#### **Background References**

- 1. Leandro-Garcia L.J. et al. Tumoral and tissue-specific expression of the major human beta-tubulin isotypes. Cytoskeleton 67:214-223 (2010).
- 2. Crabtree D.V. et al. Tubulins in the primate retina: evidence that xanthophylls may be endogenous ligands for the paclitaxel-binding site. Med. Chem. 9:1967-1976(2000).

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