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#2146

## β-Tubulin Antibody

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IHC-P, IF-IC, FC-FP	<b>Reactivity:</b> H M R Mk Z B	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 55	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P07437	<b>Entrez-Gene Id:</b> 203068
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:1000 1:75 - 1:300 1:50 1:50 - 1:200
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity/Sensitivity</b>	The β-Tubulin Antibody detects endogenous levels of total β-tubulin protein, and does not cross-react with recombinant α-tubulin.	
<b>Species predicted to react based on 100% sequence homology</b>	Xenopus	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human β-tubulin. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	The cytoskeleton consists of three types of cytosolic fibers: microtubules, microfilaments (actin filaments), and intermediate filaments. Globular tubulin subunits comprise the microtubule building block, with α/β-tubulin heterodimers forming the tubulin subunit common to all eukaryotic cells. γ-tubulin is required to nucleate polymerization of tubulin subunits to form microtubule polymers. Many cell movements are mediated by microtubule action, including the beating of cilia and flagella, cytoplasmic transport of membrane vesicles, chromosome alignment during meiosis/mitosis, and nerve-cell axon migration. These movements result from competitive microtubule polymerization and depolymerization or through the actions of microtubule motor proteins (1).	
<b>Background References</b>	1. Westermann, S. and Weber, K. (2003) <i>Nat Rev Mol Cell Biol</i> 4, 938-47.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat <b>Mk:</b> Monkey <b>Z:</b> Zebrafish <b>B:</b> Bovine
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