



alpha Tubulin Polyclonal Antibody

Catalog Number PA5-19489

Product Data Sheet

Details		Species Reactivity	
Size	50 µg	Tested species reactivity	Bovine, Canine, Chicken, Cervidae, Drosophila, Hamster, Human, Mouse, Non-human primate, Rat
Host / Isotype	Rabbit IgG	Published Species Reactivity	Human
Class	Polyclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	0.01 µg/10 ⁶ cells
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 400 to the C-terminus of Human alpha Tubulin.	Immunocytochemistry (ICC)	1-5 µg/ml
Conjugate	Unconjugated	Immunofluorescence (IF)	1-5 µg/ml
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	1:2500
Concentration	1mg/ml	Western Blot (WB)	0.5 µg/ml
Purification	Antigen affinity chromatography	Published Applications	
Storage Buffer	PBS, pH 7.4, with 1% BSA	Immunocytochemistry (ICC)	See 1 publications below
Contains	0.02% sodium azide	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Conditions	-20°C		

Product Specific Information

PA5-19489 targets alpha Tubulin in immunofluorescence, immunohistochemistry (paraffin), and Western blot applications and shows reactivity with chicken, Indian muntjac, Chinese hamster, human, fruit fly, rat, African Green Monkey, and mouse samples. Perform heat mediated antigen retrieval via the pressure cooker method before beginning immunohistochemistry staining protocol.

The PA5-19489 immunogen is synthetic peptide conjugated to KLH derived from within residues 400 to the C-terminus of Human alpha Tubulin.

PA5-19489 detects alpha Tubulin which has a predicted molecular weight of approximately 50 kDa.

Background/Target Information

Alpha Tubulin is a part of a heterodimer consisting of alpha and beta tubulin subunits. The alpha and beta tubulins, which are each about 55 kDa MW, are homologous but not identical. Alpha-beta tubulin heterodimer is the basic building block of microtubules, and this intracellular cylindrical filamentous structure is present in almost eukaryotic cells. Microtubules serve as structural supports and lines of transport within the cell, as well as serving a key role in mitosis. Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulins. 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. The gene that encodes alpha tubulin is highly similar to the mouse and rat Tuba1 gene. Northern blotting studies have shown that the gene expression is predominantly found in morphologically differentiated neurologic cells.

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