

Product datasheet for **AP54886SU-N**

Delta-2 Tubulin (Detyrosinated & Decarboxylated alpha-Tubulin) Rabbit Polyclonal Antibody

Product data:

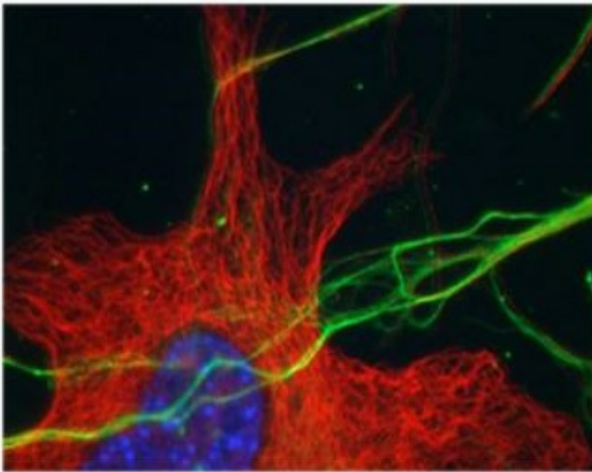
Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Western Blot: 1/500-1/2000. Immunohistochemistry: 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptides derived from C-terminal domain of Human Tubulin
Specificity:	Reacts with Delta-2 Tubulin (Detyrosinated and Decarboxylated alpha-Tubulin).
Formulation:	State: Serum State: Lyophilized powder Preservative: None
Reconstitution Method:	Restore in distilled water.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



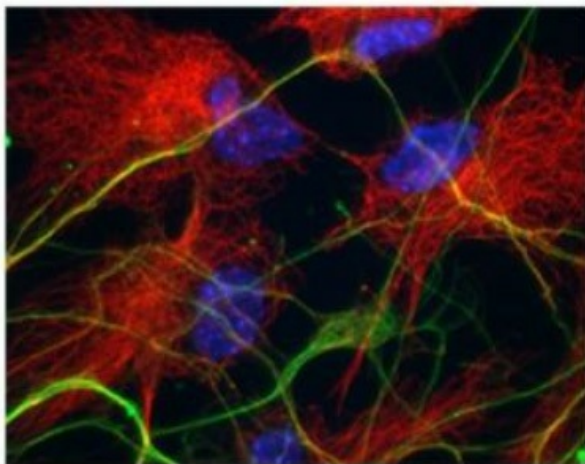
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Background:

Microtubules are involved in a wide variety of cellular activities ranging from mitosis and transport events to cell movement and the maintenance of cell shape. Tubulin itself is a globular protein which consists of two polypeptides (alpha and beta tubulin). Alpha and beta tubulin dimers are assembled to 13 protofilaments that form a microtubule of 22 nm diameter. Tyrosine ligase adds a C-terminal tyrosin to monomeric alpha tubulin. Assembled microtubules can again be detyrosinated by a cytoskeleton associated carboxypeptidase. Detyrosinated alpha tubulin is referred to as Glu-tubulin. Another post-translational modification of detyrosinated alpha tubulin is C-terminal polyglutamylation which is characteristic for microtubules in neuronal cells and the mitotic spindle. Alpha tubulin is not suitable as a loading control in adipose tissue as expression of tubulin in adipose tissue is very low (Spiegelman and Farmer, *Cell*, 1982, 29(1): 53-60, "in cells undergoing adipose differentiation actin synthesis decreases by 90%").

Product images:

AP54886SU-N Delta-2 Tubulin Antibody Staining of Human neurone



AP54886SU-N Delta-2 Tubulin Antibody Staining of Human neurone