

**Tubulin  $\alpha$  rabbit pAb****Cat#: orb767036 (Manual)**

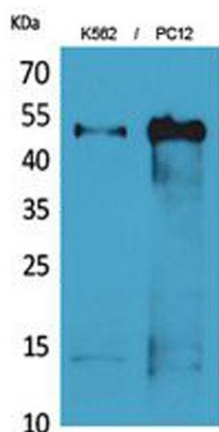
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	Tubulin $\alpha$ rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications.
<b>Immunogen</b>	Synthesized peptide derived from human Tubulin $\alpha$ around the non-acetylation site of K112.
<b>Specificity</b>	Tubulin $\alpha$ Polyclonal Antibody detects endogenous levels of Tubulin $\alpha$ protein only when acetylation at K112.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Tubulin alpha-1A chain/Tubulin alpha-1B chain/Tubulin alpha-1C chain
<b>Gene Name</b>	TUBA1A/TUBA1B/TUBA1C
<b>Cellular localization</b>	Cytoplasm, cytoskeleton.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

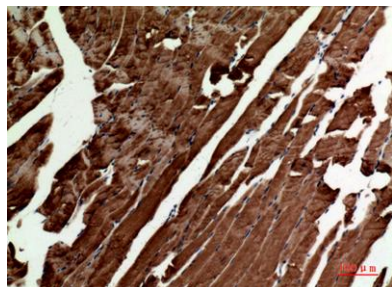
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	50kD
<b>Human Gene ID</b>	7846/10376/84790
<b>Human Swiss-Prot Number</b>	Q71U36/P68363/Q9BQE3
<b>Alternative Names</b>	TUBA1A; TUBA3; Tubulin alpha-1A chain; Alpha-tubulin 3; Tubulin B-alpha-1; Tubulin alpha-3 chain; TUBA1B; Tubulin alpha-1B chain; Alpha-tubulin ubiquitous; Tubulin K-alpha-1; Tubulin alpha-ubiquitous chain; TUBA1C; TUBA6; Tubulin alpha-1C chain; Alpha-tubul

**Background**

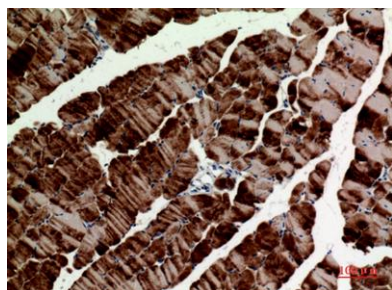
Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulins. The genes encoding these microtubule constituents belong to the tubulin superfamily, which is composed of six distinct families. Genes from the alpha, beta and gamma tubulin families are found in all eukaryotes. 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. This gene encodes alpha tubulin and is highly similar to the mouse and rat Tubal genes. Northern blotting studies have shown that the gene expression is predominantly found in morphologically differentiated neurologic cells. This gene is one of three alpha-tubulin genes in a cluster on chromosome 12q.



**Western Blot analysis of K562, PC12 cells using Tubulin  $\alpha$  Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000**



**Immunohistochemical analysis of paraffin-embedded mouse-muscle, antibody was diluted at 1:100**



**Immunohistochemical analysis of paraffin-embedded mouse-muscle, antibody was diluted at 1:100**