



# Tubulin $\alpha$ -3C/D/E Polyclonal Antibody

|                           |  |
|---------------------------|--|
| <b>Catalog No</b>         | BYab-03205   |
| <b>Isotype</b>            | IgG  |
| <b>Reactivity</b>         | Human;Mouse;Rat  |
| <b>Applications</b>       | WB;ELISA   |
| <b>Gene Name</b>          | TUBA3C/D/TUBA3E  |
| <b>Protein Name</b>       | Tubulin alpha-3C/D chain/Tubulin alpha-3E chain  |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human TUBA3C/E. AA range:201-250   |
| <b>Specificity</b>        | Tubulin $\alpha$ -3C/D/E Polyclonal Antibody detects endogenous levels of Tubulin $\alpha$ -3C/D/E protein.  |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Source</b>             | Polyclonal, Rabbit,IgG   |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Dilution</b>           | Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.   |
| <b>Concentration</b>      | 1 mg/ml  |
| <b>Purity</b>             | $\geq 90\%$  |
| <b>Storage Stability</b>  | -20°C/1 year   |
| <b>Synonyms</b>           | TUBA3C; TUBA2; TUBA3D; Tubulin alpha-3C/D chain; Alpha-tubulin 2; Alpha-tubulin 3C/D; Tubulin alpha-2 chain; TUBA3E; Tubulin alpha-3E chain; Alpha-tubulin 3E  |
| <b>Observed Band</b>      | 50kD   |
| <b>Cell Pathway</b>       | nucleus,cytoplasm,microtubule,   |
| <b>Tissue Specificity</b> | Epithelium,Skin,Testis,  |
| <b>Function</b>           | function:Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha-chain.,online information:Tubulin entry,PTM:Undergoes a tyrosination/detyrosination cycle, the cyclic removal and re-addition of a C-terminal tyrosine residue by the enzymes tubulin tyrosine carboxypeptidase (TTCP) and tubulin tyrosine ligase (TTL), respectively.,similarity:Belongs to the tubulin family.,subunit:Dimer of alpha and beta chains.,tissue specificity:Testis specific., |

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### Background

Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulin. The genes encoding these microtubule constituents are part of 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 and they are highly conserved among and between species. This gene is an alpha tubulin gene that encodes a protein 99% identical to the mouse testis-specific Tuba3 and Tuba7 gene products. This gene is located in the 13q11 region, which is associated with the genetic diseases Clouston hidrotic ectodermal dysplasia and Kabuki syndrome. [provid

### matters needing attention

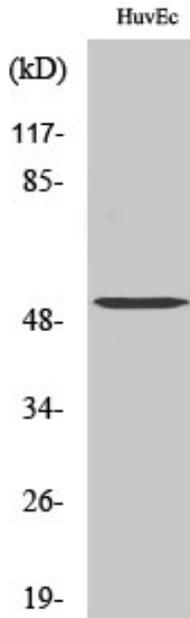
Avoid repeated freezing and thawing!

### Usage suggestions

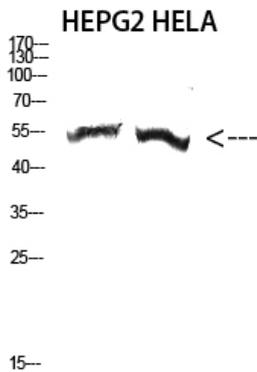
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



## Products Images



Western Blot analysis of various cells using Tubulin  $\alpha$ -3C/D/E Polyclonal Antibody diluted at 1:2000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western Blot analysis of HEPG2 HELA cells using Antibody diluted at 2000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000