

## Anti-Alpha-tubulin TUBA1A Antibody (biotin)

Catalog Number: A03989-Biotin

### About TUBA1A

Alpha-tubulin belongs to the tubulin superfamily, which is composed of six distinct families. Along with beta-tubulins, alpha-tubulins are the major components of microtubules. These 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. Alpha- and beta-tubulin dimers are assembled to 13 protofilaments that form a microtubule of 22-nm diameter (reviewed in 1). Tyrosine ligase adds a C-terminal tyrosine to monomeric alpha-tubulin. Assembled microtubules can again be detyrosinated by a cytoskeleton-associated carboxypeptidase (2). Another post-translational modification of detyrosinated alpha-tubulin is C-terminal polyglutamylation, which is characteristic of microtubules in neuronal cells and the mitotic spindle (3). Like GAPDH and  $\beta$ -Actin, this antibody makes an excellent loading control in immunoblots.

### Overview

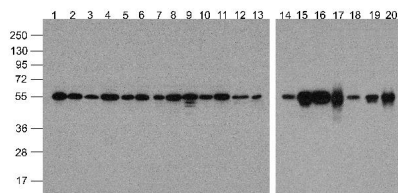
|                      |                                                                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Alpha-tubulin TUBA1A Antibody (biotin)                                                                                                                                                  |
| Reactive Species     | Chicken, Human, Mouse, Rabbit, Rat, Zebrafish                                                                                                                                                |
| Description          | Boster Bio Anti-Alpha-tubulin TUBA1A Antibody (biotin) (Catalog # A03989-Biotin). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat, Rabbit, Chicken, Zebrafish. |
| Application          | ELISA, WB                                                                                                                                                                                    |
| Clonality            | Polyclonal Clone: SK7                                                                                                                                                                        |
| Formulation          | Biotin-Alpha-tubulin antibody is supplied in PBS containing 1% BSA and 0.02% sodium azide.                                                                                                   |
| Storage Instructions | Biotin-Alpha-tubulin antibody can be stored at 4°C for three months and -20°C, stable for up to one year.                                                                                    |
| Host                 | Rabbit                                                                                                                                                                                       |
| Uniprot ID           | Q71U36                                                                                                                                                                                       |

### Technical Details

|                            |                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Immunogen                  | Biotin-Alpha-tubulin antibody was raised against an 18 amino acid peptide near the carboxy terminus of human alpha-tubulin |
| Predicted Reactive Species | Mouse                                                                                                                      |
| Cross Reactivity           | Biotin-Alpha-tubulin antibody is human, mouse, rat, rabbit, chicken, and zebrafish reactive.                               |
| Isotype                    | IgG                                                                                                                        |
| Form                       | Liquid                                                                                                                     |
| Concentration              | 1 mg/mL                                                                                                                    |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purification        | Biotin-Alpha-tubulin antibody is affinity chromatography purified via peptide column.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Biotin-Alpha-tubulin antibody can be used for detection of alpha-tubulin by Western blot at 1 - 2 ug/ml.</p> <p>Antibody validated: Western Blot in human, mouse, and rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p> |

## Anti-Alpha-tubulin TUBA1A Antibody (biotin) (A03989-Biotin) Images



Western blot analysis of Alpha-tubulin in multiple cell and tissue lysates with Biotin-Alpha-tubulin antibody at 1 ug/ml.  
Lanes 1-20: 293

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