

**Anti-ALPHA-TUBULIN (RABBIT) Antibody Peroxidase Conjugated**  
**Alpha-Tubulin Antibody Peroxidase Conjugated**  
**Catalog # ASR5820****Specification**

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**Anti-ALPHA-TUBULIN (RABBIT) Antibody Peroxidase Conjugated - Product Information**

|                       |                                                                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                  | Rabbit                                                                                                                                                                                                                                                                                          |
| Conjugate             | Peroxidase (Horseradish)                                                                                                                                                                                                                                                                        |
| Target Species        | Human                                                                                                                                                                                                                                                                                           |
| Reactivity            | Rat, Human, Mouse, Chicken, Goat, Bovine, Sheep                                                                                                                                                                                                                                                 |
| Clonality             | Polyclonal                                                                                                                                                                                                                                                                                      |
| Application           | WB, IHC, E, I, LCI                                                                                                                                                                                                                                                                              |
| Application Note      | Anti-Tubulin Loading Control Antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~50 kDa in size corresponding to alpha tubulin by western blotting in the appropriate cell lysate or extract. |
| Physical State        | Lyophilized                                                                                                                                                                                                                                                                                     |
| Buffer                | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2                                                                                                                                                                                                                                      |
| Immunogen             | Anti-Tubulin Loading Control Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-Terminal region near amino acids 425-451 of Human alpha Tubulin.                                                                  |
| Reconstitution Volume | 100 µL                                                                                                                                                                                                                                                                                          |
| Reconstitution Buffer | Restore with deionized water (or equivalent)                                                                                                                                                                                                                                                    |
| Stabilizer            | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free                                                                                                                                                                                                                          |
| Preservative          | 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!                                                                                                                                                                                                                                        |

**Anti-ALPHA-TUBULIN (RABBIT) Antibody Peroxidase Conjugated - Additional Information****Gene ID** 10376**Purity**

Anti-Tubulin is directed against human alpha Tubulin protein. The Tubulin Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest that this antibody would react with alpha Tubulin from a wide range of organisms, including avian, mammalian aquatic, parasitic and alga sources based on 100% homology for the immunogen sequence. Cross reactivity will occur with all isoforms of alpha tubulin. Such broad reactivity makes this antibody useful as an excellent loading control.

**Storage Condition**

Store Anti-Tubulin Loading Control Antibody at 4° C prior to restoration. For extended storage aliquot antibody and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge Loading Control if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

**Anti-ALPHA-TUBULIN (RABBIT) Antibody Peroxidase Conjugated - Protein Information**

**Name** TUBA1B

**Function**

Tubulin is the major constituent of microtubules, a cylinder consisting of laterally associated linear protofilaments composed of alpha- and beta-tubulin heterodimers (PubMed:<a href="http://www.uniprot.org/citations/34996871" target="\_blank">34996871</a>). Microtubules grow by the addition of GTP-tubulin dimers to the microtubule end, where a stabilizing cap forms (PubMed:<a href="http://www.uniprot.org/citations/34996871" target="\_blank">34996871</a>). Below the cap, tubulin dimers are in GDP-bound state, owing to GTPase activity of alpha- tubulin (PubMed:<a href="http://www.uniprot.org/citations/34996871" target="\_blank">34996871</a>).

**Cellular Location**

Cytoplasm, cytoskeleton

**Anti-ALPHA-TUBULIN (RABBIT) Antibody Peroxidase Conjugated - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-ALPHA-TUBULIN (RABBIT) Antibody Peroxidase Conjugated - Images****Anti-ALPHA-TUBULIN (RABBIT) Antibody Peroxidase Conjugated - 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 consisting 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 tyrosine 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 of microtubules in neuronal cells and the mitotic spindle. This antibody makes an excellent loading control.