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### **Anti-Rat Beta Tubulin 3 Polyclonal Antibody**

**CL7778AP**  
**CL7778AP-S**  
**Lot: 187821**

#### **DESCRIPTION:**

Tubulins are globular proteins that polymerize to form microtubules. Microtubules are major components of the cellular cytoskeleton that are critical for cellular structure, migration, cell division, and intracellular trafficking. There are at least three types of tubulins: alpha, beta, and gamma each having a molecular weight of approximately 55 kDa. Microtubules are large structures (300 angstrom diameter) composed of alternating alpha and beta subunits.

Class III  $\beta$ -tubulin is a microtubule element expressed exclusively in neurons and is a useful marker specific for neurons in tissue. Compounds that block microtubule formation, such as Taxol and the vinca alkaloids, act to inhibit cell division and are therefore effective anti-cancer agents.

#### **PRESENTATION:**

100  $\mu$ g (**CL7778AP**) or 20  $\mu$ g (**CL7778AP-S**) purified IgG (1 mg/ml) buffered in PBS and 0.02%  $\text{NaN}_3$ . (Purified from serum via Affinity Chromatography). For maximum recovery of contents, spin down tube before use.

#### **STORAGE/STABILITY:**

Store at +4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

#### **SPECIFICATION:**

Immunogen: 11 amino acid synthetic peptide located near the N-terminus of rat beta tubulin 3.

Specificity: This antibody is specific for rat beta tubulin 3.

IgG Class: Goat IgG

Application: This antibody is suitable for use in Western Blot (1 – 3  $\mu$ g/mL) and Immunohistochemistry with paraffin embedded sections (4  $\mu$ g/mL). This antibody has not been tested in other applications.

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## **TEST RESULTS:**

### **Western Blot:**



CL7778AP (1  $\mu\text{g/ml}$ ) staining of a rat brain lysate (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour.  
Detected by chemiluminescence.

**N.B.** Appropriate control samples should always be included in any labeling studies.

\* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

### **REFERENCES:**

1. Gunning PW, et al. 2015. The evolution of compositionally and functionally distinct actin filaments. *J Cell Sci.* 128 (11): 2009–19.
2. Sullivan KF, Cleveland DW. 1986. Identification of conserved isotype-defining variable region sequences for four vertebrate beta tubulin polypeptide classes. *Proc Natl Acad Sci U S A.* 83 (12): 4327–31.

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