

## Product datasheet for **AP31148PU-N**

### beta III Tubulin (TUBB3) Chicken Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunocytochemistry:</b> 1/100 - 1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Western Blot:</b> 1/250 - 1/500.
Reactivity:	Human, Mouse, Rat
Host:	Chicken
Isotype:	IgY
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region of the Tuj1 gene product shared between the Rat (AAM28438, NCBI) and Human (AAL28094, NCBI) gene products.
Specificity:	Recognizes Human Tuj1 (Neuron-specific class III beta-Tubulin).
Formulation:	PBS, pH 7.2 State: Aff - Purified State: Liquid purified IgY fraction Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tubulin beta 3 class III
Database Link:	<a href="#">Entrez Gene 10381 Human Q13509</a>



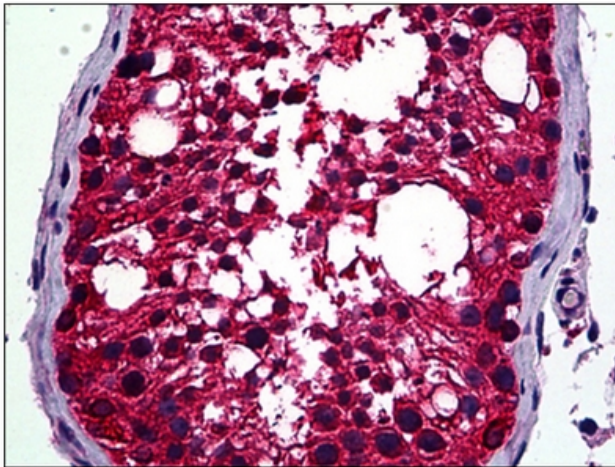
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**Background:**

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. Tubulin is a highly conserved protein with a molecular weight of ~50 kD. Microtubules play key roles in chromosome segregation in mitosis, intracellular transport, ciliary and flagellar bending, and structural support of the cytoskeleton. The two main tubulin isoforms,  $\alpha$ - and  $\beta$ -tubulin, are usually products of separate genes. The  $\beta$ -tubulin family includes six expressed genes that produce the polypeptide isoforms known as Classes I through VI, each of which have a distinct pattern of expression. Class III  $\beta$ -tubulin is found in neurons and mammalian testis cells and is widely used as a neuronal marker in developmental neurobiology, neoplasia, and stem cell research. Class III  $\beta$ -tubulin expression in neuronal and neuroblastic tumors is differentiation dependent, and its expression in certain non-neuronal neoplasms has been associated with poor prognosis and/or resistance to chemotherapy.

**Synonyms:**

Tubulin beta-3 chain, Tubulin beta-III, Tubulin beta-4

**Product images:**

Tuj1 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Testis at 5 ug/ml after heat-induced antigen retrieval.