

# Anti-Big (high-molecular-weight) tau

**Catalogue number:** 154129

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Itzhak Fischer

**Institute:** Drexel University

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-Big (high-molecular-weight) tau

**Alternate name:**

**Class:** Polyclonal

**Conjugate:** Unconjugated

**Description:** Tau is a neuronal microtubule associated protein (MAP) which has multiple isoforms that are differentially expressed during development. Big tau is a high molecular weight isoform that contains an additional large exon (4a) and is expressed primarily by neurons in the peripheral nervous system. Big tau expression has also been shown in the developing spinal cord and in the adult central nervous system. Big tau may be important in stabilizing microtubules in axons that are subjected to great s...

**Purpose:** Marker

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:**

**Reactivity:** Rat

**Selectivity:**

**Host:** Rabbit

**Immunogen:** Recombinant protein of the complete 4a exon of tau, specific to the Big tau isoform, was used to produce antibody

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Big tau (high-molecular-weight)

**Target alternate names:**

**Target background:** Tau is a neuronal microtubule associated protein (MAP) which has multiple isoforms that are differentially expressed during development. Big tau is a high molecular weight isoform that contains an additional large exon (4a) and is expressed primarily by neurons in the peripheral nervous system. Big tau expression has also been shown in the developing spinal cord and in the adult central nervous system. Big tau may be important in stabilizing microtubules in axons that are subjected to great s...

**Molecular weight:**

**Ic50:**

## Applications

**Application:** IHC ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 0.9-1.1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:** -15° C to -25° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Ma et al. 2000. J Neurosci. 20(6):2112-20. PMID: 10704485. ; Axonal transport of microtubule-associated protein 1B (MAP1B) in the sciatic nerve of adult rat: distinct transport rates of different isoforms. ; Ma et al. 1999. Brain Res. 823(1-2):141-53. PMID: 10095020. ; Induction of microtubule-associated protein 1B expression in Schwann cells during nerve regeneration. ; Boyne et al. 1995. J Neurosci Res. 40(4):439-50. PMID: 7616605. ; Expression and distribution of phosphorylated MAP1B in growing axons of cultured hippocampal neurons. ; Black et al. 1994. J Neurosci. 14(2):857-70. PMID: 8301365. ; Microtubule-associated protein 1b (MAP1b) is concentrated in the distal region of growing axons.

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