

Product Datasheet

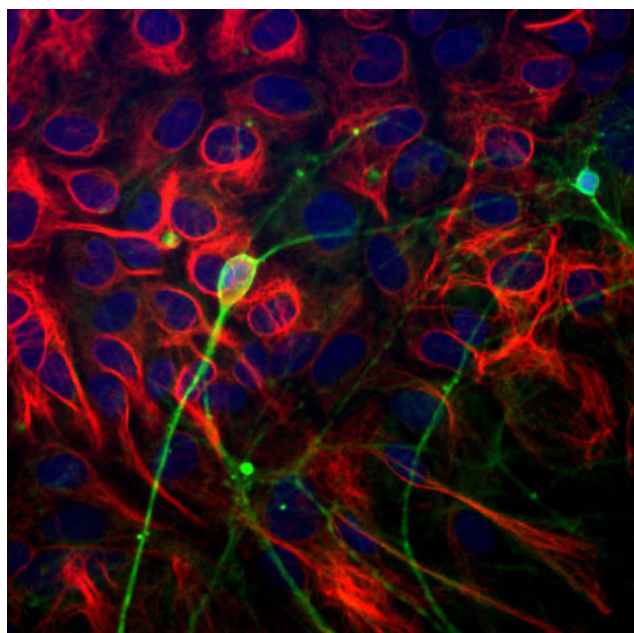
Chickens make *better* antibodies.

Anti-Beta-Tubulin 3 (TUJ) Antibody

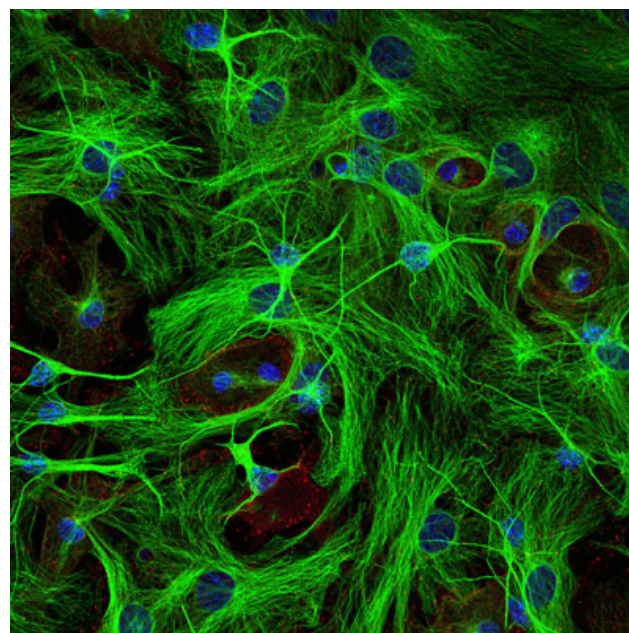
Overview

Catalog #	TUJ (1000 μ L size) or TUJ-0020 (100 μ L size)
Concentration	300 μ g/mL
Host Species	Chicken Polyclonal
Format	Affinity-Purified IgY
Buffer	Phosphate-buffered (10 mM) isotonic (0.9%, w/v) saline ("PBS," pH 7.2) with sodium azide (0.02%, w/v) added as a preservative.
Applications	IHC 1:2000-1:5000 ICC 1:2000-1:5000 WB 1:10000-1:20000
Species Reactivity	Human, Mouse, and Rat
Immunogen	Synthetic peptides
Molecular Weight	50 kDa
Cite this Antibody	Aves Labs Cat# TUJ, or Aves Labs Cat# TUJ-0020; RRID: AB_2313564

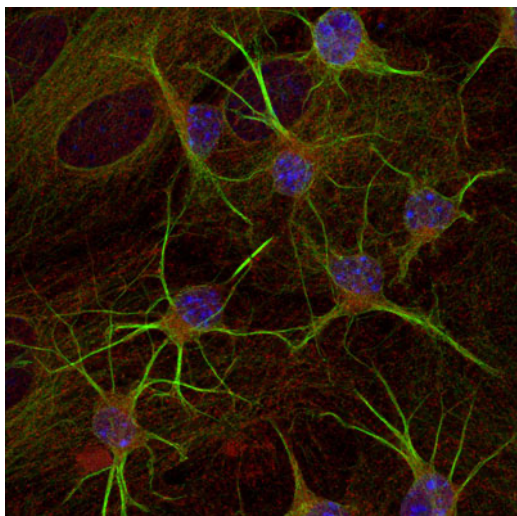
Images



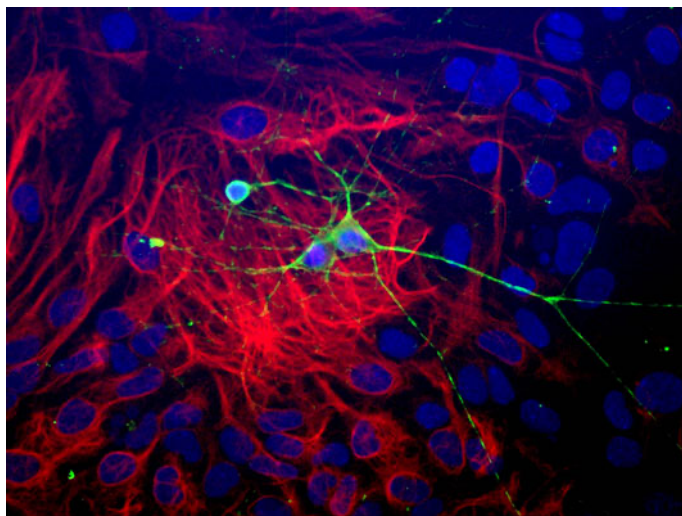
Immunostaining of paraformaldehyde-fixed (4%) neonatal mouse brain cultures showing β -Tubulin 3 immunostaining (green, 1:1000). Red staining is rabbit-anti-GFAP, blue is DAPI nuclear counterstain. Secondary antibodies were fluorescein-labeled goat anti-chicken IgY; Texas Red-labeled goat anti-rabbit IgG. Image from Dr. Gerry Shaw (EnCor Biotechnology).



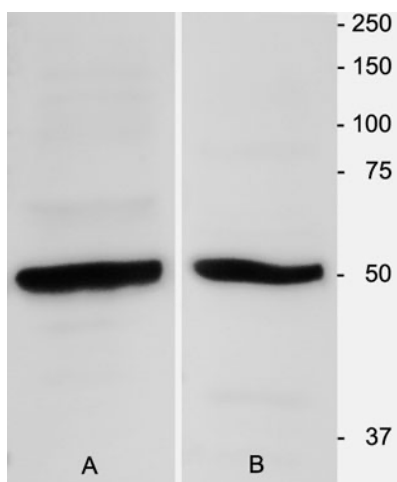
Immunostaining of paraformaldehyde-fixed (4%) cultures of SpH64 neuroblastoma cells showing β -Tubulin 3 immunostaining (green, 1:1000). Red staining is rabbit-anti-actin (1:1000); blue is DAPI nuclear counterstain. Secondary antibodies were fluorescein-labeled goat anti-chicken IgY (Cat # F-1005, 1:1000); Texas Red-labeled goat anti-rabbit IgG. Page Balisch (University of Arizona).



Immunostaining of paraformaldehyde-fixed (4%) cultures of SpH64 neuroblastoma cells showing β -Tubulin 3 immunostaining (green 1:1000). Red staining is rabbit-anti-actin (1:1000); blue is DAPI nuclear counterstain. Secondary antibodies were fluorescein-labeled goat anti-chicken IgY (Cat # F-1005, 1:1000); Texas Red-labeled goat anti-rabbit IgG. Page Balisch (University of Arizona).

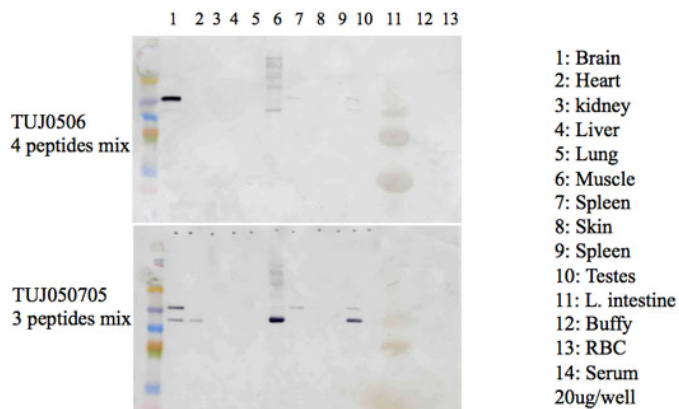


Immunostaining of paraformaldehyde-fixed (4%) neonatal mouse brain cultures showing β -Tubulin 3 immunostaining (green, 1:1000 dilution). Red staining is rabbit-anti-GFAP (1:1000); blue is DAPI nuclear counterstain. Secondary antibodies were fluorescein-labeled goat anti-chicken IgY; Texas Red-labeled goat anti-rabbit IgG Dr. Gerry Shaw (EnCor Biotechnology).



β -Tubulin 3 Immunoblot using homogenates of adult mouse brain (1:3000). Hoda Ilias, Aves Labs.

Western Blotting --- human tissue panel
with 4 or 3 peptides mix of Aves beta tubulin chicken antibody



β -Tubulin 3 Immunoblot using homogenates of various organs. Performed at Kingfisher Labs.

Details

Target Description

Human Beta-Tubulin 3 is a 50,432 dalton structural protein (450 amino acid) expressed in neurons of the PNS and CNS. It contributes to microtubule stability in neuronal cell bodies and axons, and plays a role in axonal transport.

Purification Method	Chickens were immunized with three synthetic peptide / keyhole limpet hemocyanin (KLH) conjugates. These synthetic peptides corresponded to different regions of the β -Tubulin 3 gene product, but are shared between the human (NP_AAL28094, NCBI) and rat (AAM28438, NCBI) protein sequences. After repeated injections, immune eggs were collected, and the IgY fractions were purified from the yolks. These IgY fractions were then affinity purified using a peptide column, and the concentrations of the eluates adjusted to 300 μ g/mL. Finally, equal volumes of each of the three affinity-purified anti-peptide antibodies were mixed, and the preparation was filter-sterilized.
Quality Control Tests	Each of the three antibodies were analyzed by immunohistochemistry (at a dilution of 1:2000) using fluorescein-labeled goat anti-chicken IgY (1:500 dilution, Aves Labs Cat.# F-1005) as the secondary reagent.
Storage	Store at 4°C in the dark. Under these conditions, the antibodies should have a shelf life of at least twelve months, provided they remain sterile. For longer term storage, aliquot and freeze to avoid freeze-thaw of the antibody.

Our Guarantee

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