

Product Datasheet

Chickens make *better* antibodies.

Anti-Teneurin-3 (N497/10) Recombinant Chicken Chimeric mAb

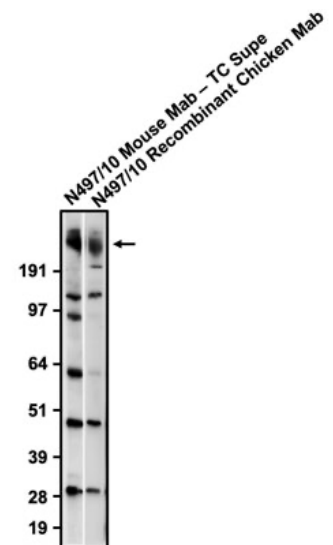
Overview

Catalog #	78-532 (100 µL size) or 78-532-020 (20 µL size)
Conjugate	Unconjugated
Isotype	IgY
Clone Number	N497/10
Concentration	1 mg/mL
Host Species	Chicken Recombinant
Format	Purified by affinity chromatography
Buffer	1X PBS, 0.05% Sodium Azide pH 7.4
Applications	ELISA, ICC, IHC, WB
Species Reactivity	Human, Mouse, and Rat
Immunogen	Recombinant protein comprising amino acids aa 161-201 and 343-396 (extracellular and cytoplasmic domains) of mouse Teneurin-3 (Tenm3, accession number Q9WTS6) connected by a Gly8 linker, produced recombinantly in E.Coli.
Molecular Weight	303 kDa

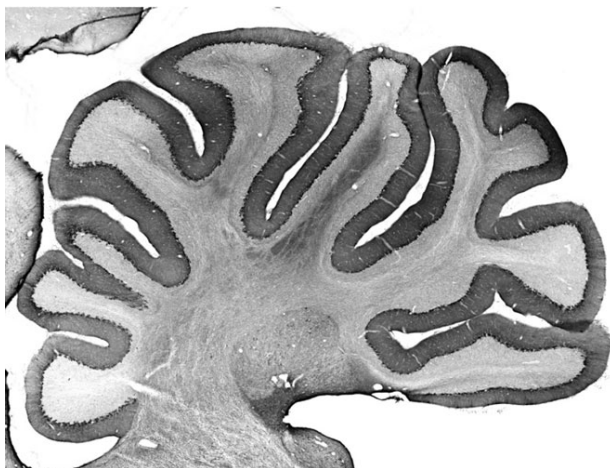
Images



Representative image of formalin fixed paraffin embedded section of rat cerebellum section stained with anti-Teneurin-3 recombinant chicken monoclonal antibody (brown, Cat No. 78-532) and counterstained with hematoxylin (blue).
Magnification: 200X



Western blotting of rat brain membrane with NeuroMab anti-Teneurin-3 mouse mAb TC supe (Clone N497/10) and with Aves Labs anti-Teneurin-3 recombinant chicken mAb antibody (Cat No. 78-532) recognizing endogenous Teneurin-3 at ~300 kDa with similar sensitivity. The mouse mAb and chicken mAb were detected with anti-mouse-HRP and anti-chicken-HRP (Cat No. 80-1000-HRP), respectively.



Immunohistochemistry staining of cerebellum region from adult rats using anti-Teneurin-3 NeuroMab mouse monoclonal antibody (Clone N497/10). The variable region of this antibody was used to generate recombinant chicken chimeric anti-Teneurin-3 antibody (Cat No. 78-532).

Details

Scientific Background

Teneurin-3 is a large type II transmembrane protein belonging to the teneurin family, which plays essential roles in neuronal connectivity, cell adhesion, and developmental patterning. Structurally, Teneurin-3 contains a large extracellular domain with EGF-like repeats, NHL and YD-repeat motifs, and a unique C-terminal peptide sequence implicated in intercellular signaling. It mediates homophilic and heterophilic interactions that guide axon targeting and synapse specificity, particularly in the visual and hippocampal systems. Teneurin-3 interacts with latrophilins and other synaptic adhesion molecules to regulate synaptogenesis and neuronal circuit formation. Genetic disruption or altered expression of *TENM3* has been linked to neurodevelopmental disorders, visual pathway defects, and certain cancers, highlighting its significance in neural development and disease.

Purification Method

This recombinant antibody is a chimeric antibody created by replacing the mouse heavy and light constant regions clone N497/10 with chicken IgY heavy and light constant regions. As such this antibody retains the same binding performance as the original clone N497/10 but can be detected using standard anti-chicken secondary antibodies allowing flexibility for multiplexing applications. This antibody is expressed recombinantly in mammalian cells and then affinity purified from the cell culture media.

Quality Control Tests

Each new lot of antibody is quality control tested by Western blot on rat brain membrane fraction and confirmed to stain the expected molecular weight band.

Storage

Aliquot and store at $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at $2-8^{\circ}\text{C}$. For maximum recovery of product, centrifuge the vial prior to removing the cap.

Our Guarantee

As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience how chickens make better antibodies.

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