

TENM3 Antibody
Catalog # ASC11914**Specification**

TENM3 Antibody - Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q9P273
Other Accession	NP_001073946 , 122937400
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 297 kDa
Application Notes	Observed: 300 kDa KDa TENM3 antibody can be used for detection of TENM3 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

TENM3 Antibody - Additional InformationGene ID **55714****Target/Specificity**

TENM3; TENM3 antibody is human, mouse and rat reactive. TENM3 antibody is predicted to not cross-react with other members of the TENM family.

Reconstitution & Storage

TENM3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

TENM3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TENM3 Antibody - Protein InformationName TENM3 ([HGNC:29944](#))**Function**

Involved in neural development by regulating the establishment of proper connectivity within the nervous system. Acts in both pre- and postsynaptic neurons in the hippocampus to control the assembly of a precise topographic projection: required in both CA1 and subicular neurons for the precise targeting of proximal CA1 axons to distal subiculum, probably by promoting homophilic cell adhesion. Required for proper dendrite morphogenesis and axon targeting in the vertebrate visual system, thereby playing a key role in the development of the visual pathway. Regulates the formation in ipsilateral retinal mapping to both the dorsal lateral geniculate nucleus (dLGN) and the superior colliculus (SC). May also be involved in the differentiation of the fibroblast-like cells in the superficial layer of mandibular condylar cartilage into chondrocytes.

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q9WTS6}; Single-pass membrane protein {ECO:0000250|UniProtKB:Q9WTS6}. Cell projection, axon {ECO:0000250|UniProtKB:Q9WTS6}

Tissue Location

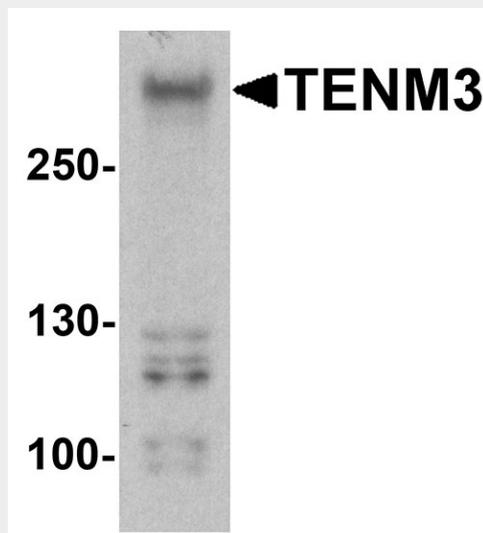
Expressed in adult and fetal brain, slightly lower levels in testis and ovary, and intermediate levels in all other peripheral tissues examined. Not expressed in spleen or liver Expression was high in brain, with highest levels in amygdala and caudate nucleus, followed by thalamus and subthalamic nucleus

TENM3 Antibody - Protocols

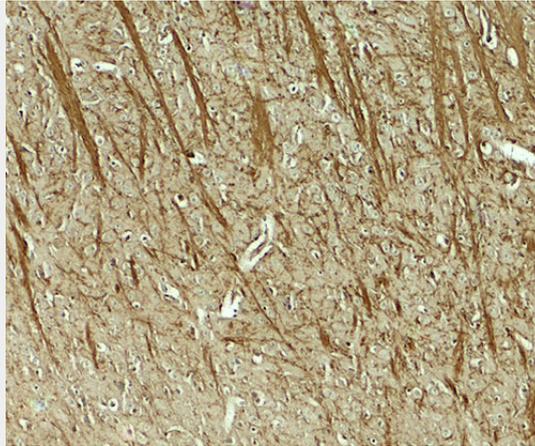
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

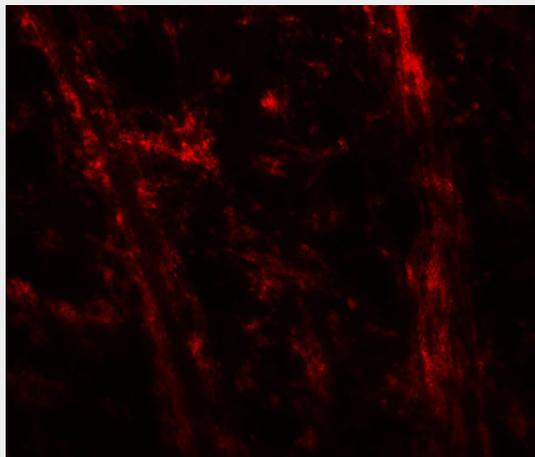
TENM3 Antibody - Images



Western blot analysis of TENM3 in 293 cell lysate with TENM3 antibody at 1 µg/ml.



Immunohistochemistry of TENM3 in mouse brain tissue with TENM3 antibody at 5 µg/mL.



Immunofluorescence of TENM3 in mouse brain tissue with TENM3 antibody at 20 µg/mL.

TENM3 Antibody - Background

The teneurin transmembrane protein 3 (TENM3) is a member of a family of four neuronal cell surface proteins homologous to the *Drosophila* pair-rule gene *Ten-m* (1,2). TENM3 is expressed in cartilaginous cells during postnatal growth in mice (3), as well as the adult eye and optic stalk (4). Homozygous null mutations in TENM3 causes microphthalmia in humans (5).

TENM3 Antibody - References

Ben-Zur T and Wides R. Mapping homologs of *Drosophila* odd oz (*odz*): *Doc4/Odz* to mouse chromosome 7, *Odz1* to mouse chromosome 11; and *ODZ3* to human chromosome Xq25. *Genomics* 1999; 58:102-3.

Rubin BP, Tucker RP, Martin D, et al. Teneurins: a novel family of neuronal cell surface proteins in vertebrates, homologous to the *Drosophila* pair-rule gene *Ten-m*. *Dev. Biol.* 1999; 216:195-209.

Murakami T, Fukunaga T, Takeshita N, et al. Expression of *Ten-m/Odz3* in the fibrous layer of mandibular condylar cartilage during postnatal growth in mice. *J. Anat.* 2010; 217:236-44.

Ben-Zur T, Feige E, Motro B, et al. The mammalian *Odz* gene family: homologs of a *Drosophila* pair-rule gene with expression implying distinct yet overlapping developmental roles. *Dev. Biol.* 2000; 217:107-20.