

TENM1 Antibody
Catalog # ASC11913**Specification**

TENM1 Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	Q9UKZ4
Other Accession	NP_001156750 , 253970444
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 301 kDa

Application Notes	Observed: 280 kDa KDa TENM1 antibody can be used for detection of TENM1 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.
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TENM1 Antibody - Additional Information

Gene ID **10178**

Target/Specificity

TENM1; TENM1 antibody is human, mouse and rat reactive. TENM1 antibody is predicted to not cross-react with other members of the TENM family.

Reconstitution & Storage

TENM1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

TENM1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TENM1 Antibody - Protein Information

Name TENM1

Synonyms ODZ1, TNM1

Function

Involved in neural development, regulating the establishment of proper connectivity within the nervous system. May function as a cellular signal transducer (By similarity).

Cellular Location

Cell membrane; Single-pass membrane protein [Teneurin C-terminal-associated peptide]: Nucleus. Cytoplasm. Cell membrane Note=Colocalizes with the dystroglycan complex at the cell membrane in hippocampal cells. Binds hippocampal cell membranes and is incorporated in the cytoplasm by

endocytosis in a caveoli-dependent manner. Upon cell internalization is transported around and in the nucleus (By similarity).

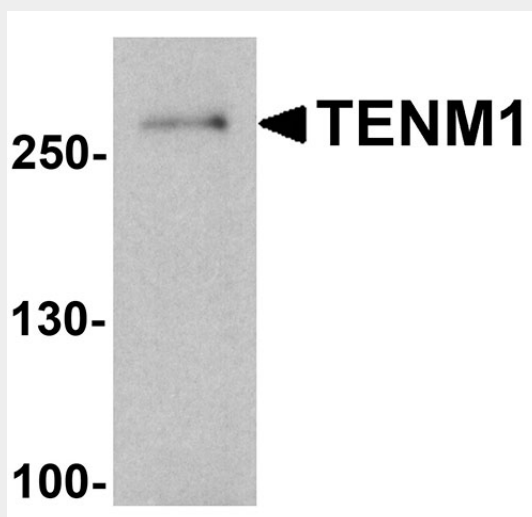
Tissue Location

Expressed in fetal brain.

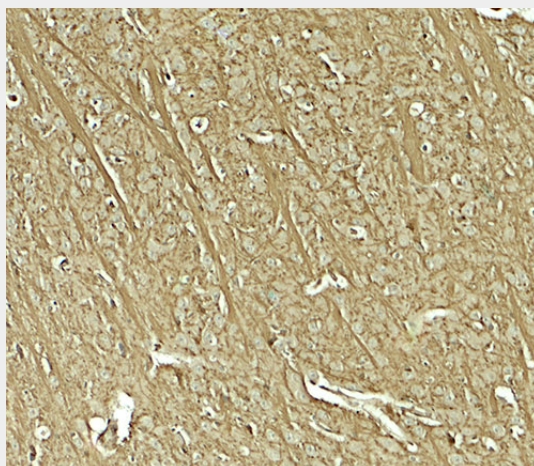
TENM1 Antibody - Protocols

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

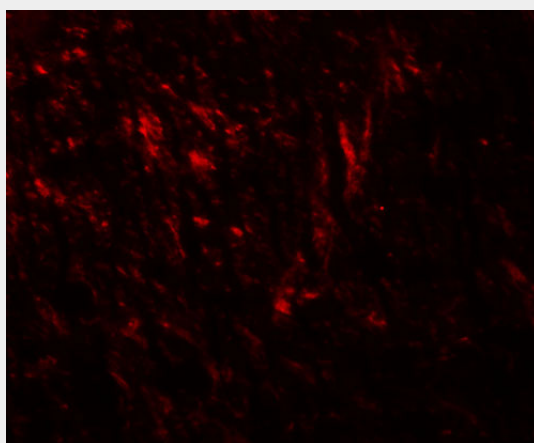
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TENM1 Antibody - Images

Western blot analysis of TENM1 in human brain tissue lysate with TENM1 antibody at 1 µg/ml.



Immunohistochemistry of TENM1 in mouse brain tissue with TENM1 antibody at 5 µg/mL.



Immunofluorescence of TENM1 in mouse brain tissue with TENM1 antibody at 20 µg/mL.

TENM1 Antibody - Background

The teneurin transmembrane protein 1 (TENM1) is a member of a family of four neuronal cell surface proteins homologous to the *Drosophila* pair-rule gene *Ten-m* (1,2). TENM1 is expressed primarily in the developing central nervous system and may be proteolytically cleaved with the intracellular domain translocating to the nucleus (3). TENM1 is a direct target of the homeobox transcription factor EMX2, a transcription factor thought to be important for area specification in the developing cortex (4).

TENM1 Antibody - References

Minet AD, Rubin BP, Tucker RP, et al. Teneurin-1, a vertebrate homologue of the *Drosophila* pair-rule gene *ten-m*, is a neuronal protein with a novel type of heparin-binding domain. *J. Cell Sci.* 1999; 112:2019-32.

Rubin BP, Tucker RP, Martin D, et al. Tenurins: 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.

Kenzelmann D, Chiquet-Ehrismann R, Leachman NT, et al. Teneurin-1 is expressed in interconnected regions of the developing brain and processed in vivo. *BMC Dev. Biol.* 2008; 8:30.

Beckmann J, Vitobello A, Ferralli J, et al. Human teneurin-1 is a direct target of the homeobox transcription factor EMX2 at a novel alternate promoter. *BMC Dev. Biol.* 2011; 11:35.