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TENM1 Antibody
Catalog # ASC11913

Specification

TENM1 Antibody - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q9UKZ4
Other Accession	NP_001156750, 253970444
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 301 kDa** **Observed: 280 kDa KDa**
Application Notes	**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.**

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℃ for three months and -20℃, 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 arround and in the nucleus (By similarity).

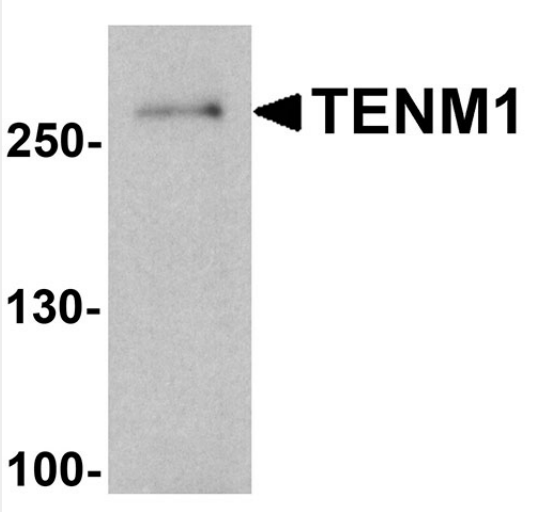
Tissue Location
Expressed in fetal brain.

TENM1 Antibody - Protocols

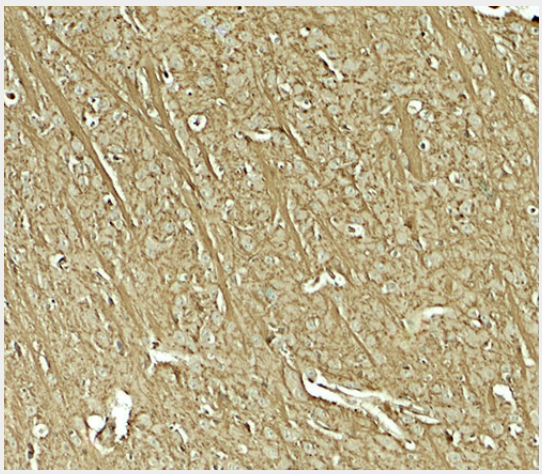
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TENM1 Antibody - Images



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



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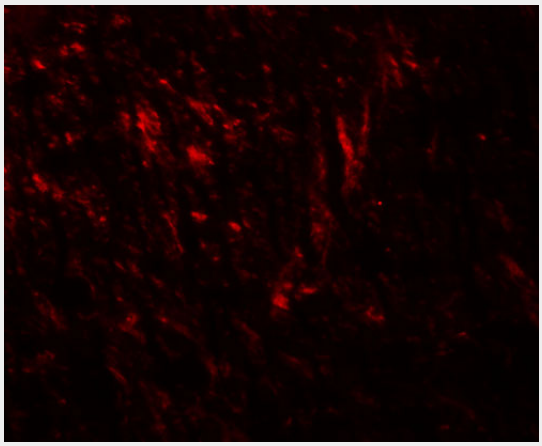
Immunohistochemistry of TENM1 in mouse brain tissue with TENM1 antibody at 5 µg/mL.



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 teneruin-1 is a direct target of the homeobox transcription factor EMX2 at a novel alternate promoter. BMC Dev. Biol. 2011; 11:35.