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ODZ3 Antibody (N-Terminus)

Rabbit Polyclonal Antibody

Catalog # ALS16455

Specification

ODZ3 Antibody (N-Terminus) - Product Information

Application	**IF, IHC**
Primary Accession	Q9P273
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**301kDa KDa**

ODZ3 Antibody (N-Terminus) - Additional Information

Gene ID 55714

Other Names
Teneurin-3, Ten-3, Protein Odd Oz/ten-m homolog 3, Tenascin-M3, Ten-m3, Teneurin transmembrane protein 3, TENM3, KIAA1455, ODZ3, TNM3

Target/Specificity
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
Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions
ODZ3 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

ODZ3 Antibody (N-Terminus) - Protein Information

Name 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}

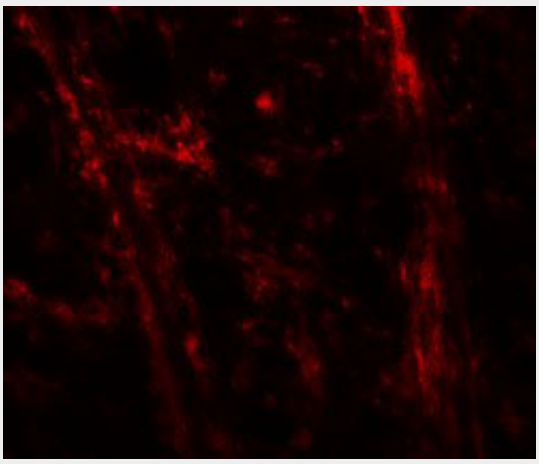
Tissue Location
Expressed in adult and fetal brain, slightly lower levels in testis and ovary, and intermediate levels in all other peripheral tissues examined. Not expressed in spleen or liver Expression was high in brain, with highest levels in amygdala and caudate nucleus, followed by thalamus and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

ODZ3 Antibody (N-Terminus) - Protocols

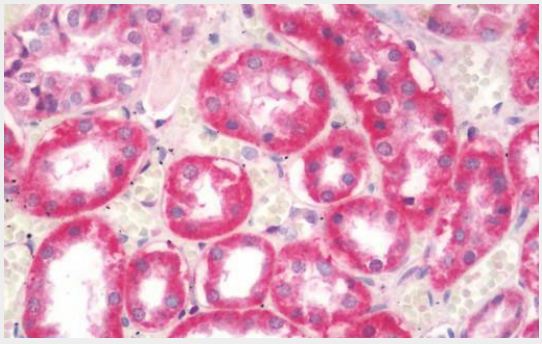
Provided below are standard protocols that you may find useful for product applications.

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

ODZ3 Antibody (N-Terminus) - Images

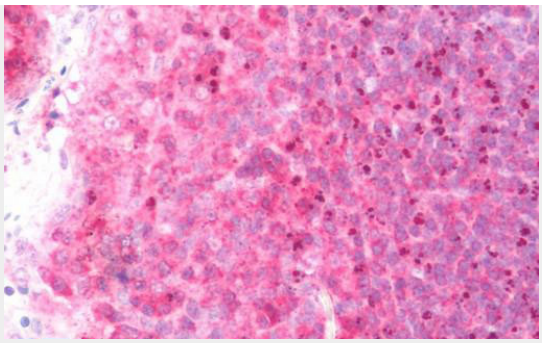


Immunofluorescence of TENM3 in mouse brain tissue with TENM3 antibody at 20 ug/mL.



Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)

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Human Tonsil: Formalin-Fixed, Paraffin-Embedded (FFPE)

ODZ3 Antibody (N-Terminus) - Background

Involved in neural development, regulating the establishment of proper connectivity within the nervous system. Promotes axon guidance and homophilic cell adhesion. Plays a 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 be involved in the differentiation of the fibroblast-like cells in the superficial layer of mandibular condylar cartilage into chondrocytes. May function as a cellular signal transducer (By similarity).

ODZ3 Antibody (N-Terminus) - References

Hillier L.W.,et al.Nature 434:724-731(2005).
Ben-Zur T.,et al.Dev. Biol. 217:107-120(2000).
Nagase T.,et al.DNA Res. 7:143-150(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Steckler N.K.,et al.Submitted (AUG-2004) to the EMBL/GenBank/DDBJ databases.