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ODZ3 / Teneurin-3 Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF2827a

Specification

ODZ3 / Teneurin-3 Antibody (internal region) - Product Information

Application	**IHC, IF, E**
Primary Accession	Q9P273
Other Accession	NP_001073946.1, 55714, 23965 (mouse)
Reactivity	**Human**
Predicted	**Mouse, Rat, Pig, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**300950**

ODZ3 / Teneurin-3 Antibody (internal region) - 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

Dilution
IHC~~1:100~500
IF~~1:50~200
E~~N/A

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ODZ3 / Teneurin-3 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

ODZ3 / Teneurin-3 Antibody (internal region) - 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}

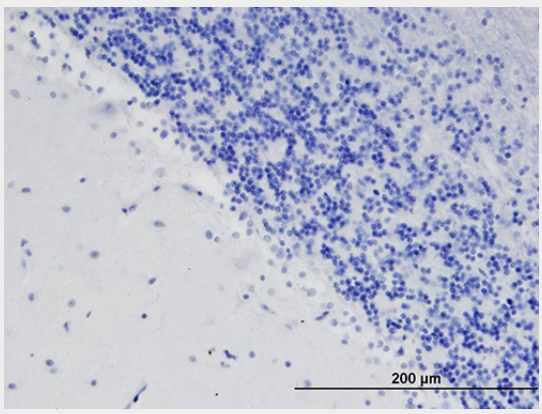
Tissue Location
Expressed in adult and fetal brain, slightly lower levels in testis and ovary, and intermediate levels in all other peripheral tissues examined. Not expressed in spleen or liver Expression was high in brain, with highest levels in amygdala and caudate nucleus, followed by thalamus and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

ODZ3 / Teneurin-3 Antibody (internal region) - 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 / Teneurin-3 Antibody (internal region) - Images



AF2827a (1.5 µg/ml) staining of paraffin embedded Human Cerebellum. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

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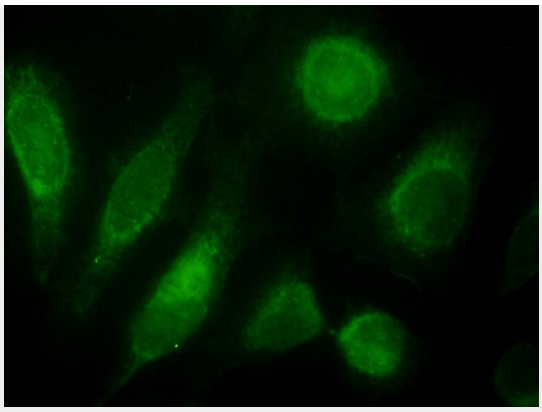

AF2827a (10ug/ml) staining of nuclei HeLa cells (green). Detected by immunofluorescence.

ODZ3 / Teneurin-3 Antibody (internal region) - References

The mammalian Odz gene family: homologs of a Drosophila pair-rule gene with expression implying distinct yet overlapping developmental roles. Ben-Zur T, Feige E, Motro B, Wides R. Dev Biol. 2000 Jan 1;217(1):107-20. PMID: 10625539