

ODF2 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3425a**Specification**

ODF2 Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	Q5BJF6
Other Accession	NP_002531.3 , NP_702915.1 , 4957 , 18286 (mouse), 29479 (rat)
Reactivity	Mouse
Predicted	Human, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	95401

ODF2 Antibody (internal region) - Additional Information**Gene ID** 4957**Other Names**

Outer dense fiber protein 2, Cenexin, Outer dense fiber of sperm tails protein 2, ODF2

Dilution

WB~~1:1000

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

ODF2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

ODF2 Antibody (internal region) - Protein Information**Name** ODF2**Function**

Seems to be a major component of sperm tail outer dense fibers (ODF). ODFs are filamentous structures located on the outside of the axoneme in the midpiece and principal piece of the

mammalian sperm tail and may help to maintain the passive elastic structures and elastic recoil of the sperm tail. May have a modulating influence on sperm motility. Functions as a general scaffold protein that is specifically localized at the distal/subdistal appendages of mother centrioles. Component of the centrosome matrix required for the localization of PLK1 and NIN to the centrosomes. Required for the formation and/or maintenance of normal CETN1 assembly.

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell projection, cilium {ECO:0000250|UniProtKB:A3KGV1}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole Cytoplasm, cytoskeleton, spindle pole {ECO:0000250|UniProtKB:A3KGV1} Cell projection, cilium, flagellum {ECO:0000250|UniProtKB:A3KGV1} Note=Localized at the microtubule organizing centers in interphase and spindle poles in mitosis. Localized at the distal/subdistal appendages of mother centrioles. {ECO:0000250|UniProtKB:A3KGV1}

Tissue Location

Testis-specific (at protein level). Highly expressed in cytoplasm of step 2 round spermatids. Detected in the middle piece and extends to about half the principal piece of the sperm tails.

ODF2 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 Cytometry](#)
- [Cell Culture](#)

ODF2 Antibody (internal region) - Images



AF3425a (3 µg/ml) staining of C57/B6 mouse CTL lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence. Data provided by Everest grant winner Dr. J. Griffiths, University of Cambridge, UK

ODF2 Antibody (internal region) - Background

This antibody is expected to recognize reported isoform 1 (NP_002531.3).

ODF2 Antibody (internal region) - References

Plk1-dependent and -independent roles of an ODF2 splice variant, hCenexin1, at the centrosome of somatic cells. Soung NK, Park JE, Yu LR, Lee KH, Lee JM, Bang JK, Veenstra TD, Rhee K, Lee KS, Developmental cell 2009 Apr 16 (4): 539-50. PMID: 19386263