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AP09382PU-N Polyclonal Antibody to ODF2 pSer796 - Aff - Purified

Alternate names: Cenexin, Outer dense fiber of sperm tails protein 2, Outer dense fiber protein 2

Quantity: 0.1 mg

Concentration: 0.8 mg/ml (by UV absorbance at 280 nm)

Background: Cenexin-1, also known as ODF2 and outer dense fiber of sperm tails 2, are cytoskeletal structures that surround the axoneme in the middle piece and principal piece of the sperm tail. The fibers function in maintaining the elastic structure and recoil of the sperm tail as well as in protecting the tail from shear forces during epididymal transport and ejaculation. Defects in the outer dense fibers lead to abnormal sperm morphology and infertility. Cenexin-1 is one of the major outer dense fiber proteins. Multiple protein isoforms are encoded by transcript variants of the cenexin gene; however, not all isoforms and variants have been fully described.

Uniprot ID: Q5BIF6

NCBI: NP_002531

GeneID: 4957

Host / Isotype: Rabbit / IgG

Immunogen: Synthetic peptide corresponding to residues near S796 of human cenexin-1

Format:
State: Liquid
Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 0.01% (w/v) Sodium Azide

Applications:
ELISA: 1/2,000 - 1/10,000.
Western Blot: 1/200 - 1/2,000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody is specific for Cenexin-1 protein phosphorylated at S796.

Species Reactivity:
Tested: Human.
Expected from sequence similarity: Chimpanzee, Macaque.

Storage:
Store the antibody at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Soung NK, Kang YH, Kim K, Kamijo K, Yoon H, Seong YS, et al. Requirement of hCenexin for proper mitotic functions of polo-like kinase 1 at the centrosomes. Mol Cell Biol. 2006 Nov;26(22):8316-35. Epub 2006 Sep 11. PubMed PMID: 16966375.
2. Kierszenbaum AL. Keratins: unraveling the coordinated construction of scaffolds in spermatogenic cells. Mol Reprod Dev. 2002 Jan;61(1):1-2. PubMed PMID: 11774369.
3. Petersen C, Füzesi L, Hoyer-Fender S. Outer dense fibre proteins from human sperm tail: molecular cloning and expression analyses of two cDNA transcripts encoding proteins of approximately 70 kDa. Mol Hum Reprod. 1999 Jul;5(7):627-35. PubMed PMID: 10381817.
4. Hoyer-Fender S, Petersen C, Brohmann H, Rhee K, Wolgemuth DJ. Mouse Odf2

cDNAs consist of evolutionary conserved as well as highly variable sequences and encode outer dense fiber proteins of the sperm tail. Mol Reprod Dev. 1998 Oct;51(2):167-75. PubMed PMID: 9740324.
5. Shao,X., Murthy,S., Demetrick,D.J. and van der Hoorn,F.A. (1998) Human outer dense fiber gene, ODF2, localizes to chromosome 9q34. Cytogenet. Cell Genet. 83 (3-4), 221-223.