Recombinant Human ODF2

Cat. No. ODF2-27389TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Cenexin1/ODF2 Isoform 3 with a N terminal proprietary tag: predicted molecular weight 36.52 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	99 amino acids
Description	The outer dense fibers 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. This gene encodes one of the major outer dense fiber proteins. Alternative splicing results in multiple transcript variants. The longer transcripts, also known as Cenexins, encode proteins with a C-terminal extension that are differentially targeted to somatic centrioles and thought to be crucial for the formation of microtubule organizing centers.
Molecular Weight	36.520kDa inclusive of tags
Tissue specificity	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.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	KEHALSKERAAQNKILDLETQLSRTKTELSQLRRSRDDADRRYQSRLQDLKDRLEQ SESTNRSMQNYVQFLKSSYANVFGDGPYSTFLTSSPIRSRSPP*
Sequence Similarities	Belongs to the ODF2 family.

GENE INFORMATION

Gene Name	ODF2 outer dense fiber of sperm tails 2 [Homo sapiens]
Official Symbol	ODF2
Synonyms	ODF2; outer dense fiber of sperm tails 2; outer dense fibre of sperm tails 2; outer dense fiber protein 2; cancer/testis antigen 134; CT134; ODF84;
Gene ID	4957
mRNA Refseq	NM_001242352
Protein Refseq	NP_001229281
MIM	602015

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Uniprot ID	Q5BJF6
Chromosome Location	9q34
Pathway	Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; G2/M Transition, organism-specific biosystem; Loss of Nlp from mitotic centrosomes, organism-specific biosystem; Loss of proteins required for interphase microtubule organization??from the centrosome, organism-specific biosystem;
Function	protein binding; structural molecule activity;

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