ODF2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ODF2, Monoclonal Antibody
Full Product Name	ODF2 (Outer Dense Fiber Protein 2, Cenexin, Outer Dense Fiber of Sperm Tails Protein 2) (MaxLight 750)
Product Gene Name	anti-ODF2 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1A1
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ODF2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	89kDa
OMIM	602015
3D Structure	ModBase 3D Structure for Q5BJF6
Immunogen	Partial recombinant corresponding to aa706-805 from human ODF2 (NP_002531) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KEHALSKERAAQNKILDLETQLSRTKTELSQLRRSRDDADRRYQSRLQDLKDRLEQSESTNRSMQNYVQFLKSSYANVFGDGPYSTFLTSSPIRSRSPP
Conjugate	MaxLight750
Product Categories/Family for anti-ODF2 antibody	Antibodies; Centromeres
Applications Tested/Suitable for anti-ODF2 antibody	FLISA, Western Blot (WB)
Application Notes for anti-ODF2 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-ODF2 antibody	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.
Other Notes	Small volumes of anti-ODF2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ODF2 purchase	MBS6234263 is an antibody targeting ODF2. Also known as ODF2 (Outer Dense Fiber Protein 2, Cenexin, Outer Dense Fiber of Sperm Tails Protein 2) (MaxLight 750). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ODF2. It may not necessarily be applicable to this product.

NCBI GI #	24430181
NCBI GeneID	4957
NCBI Accession #	NP_002531
UniProt Primary Accession #	Q5BJF6
UniProt Related Accession #	Q5BJF6
GenBank Nucleotide #	NM_002540
NCBI Official Full Name	outer dense fiber protein 2 isoform 9
NCBI Official Synonym Full Names	outer dense fiber of sperm tails 2
NCBI Official Symbol	ODF2
NCBI Official Synonym Symbols	CT134; ODF84; ODF2/1; ODF2/2
UniProt Protein Name	Outer dense fiber protein 2
UniProt Synonym Protein Names	Cenexin; Outer dense fiber of sperm tails protein 2
Protein Family	Outer dense fiber protein
UniProt Gene Name	ODF2
UniProt Entry Name	ODFP2_HUMAN
NCBI Protein Information	outer dense fiber protein 2
NCBI Summary for ODF2	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. [provided by RefSeq, Oct 2010]
Research Articles on ODF2	**1.** Cenexin controls centrosome positioning during cell migration by modulating microtubule organization and stability.Cenexin is required for spindle orientation.
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