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Rabbit Anti-Cenexin1 antibody

SL10309R

Product Name	Cenexin1
Chinese Name	精子尾部结构蛋白抗体
Alias	Cenexin1/ODF2; sperm tail structural protein; 84 kDa outer dense fiber protein; Cenexin 1; Cen KKT 4; KKT4; ODF 2; ODF 84; ODF2; ODF2/1; ODF2/2; ODF84; Outer dense fiber of sperm dense fiber of sperm tails 2; outer dense fiber of sperm tails; Outer dense fiber of sperm tails pro dense fiber of sperm tails, 84 kD; Outer dense fiber protein 2; Sperm outer dense fiber major pro specific autoantigen; ODFP2_HUMAN.
Research Area	immunology Developmental biology Signal transduction
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat, (predicted: Human,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	91kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Cenexin1: 1-100/829
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d

applications.

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Cenexin1 is an isoform of ODF2, that unlike ODF2 is present in several somatic cell types. Cene general scaffold protein that is specifically localised to the distal/subdistal appendages of mother Cenexin1 is required for proper localization of Plk1 to the centrosomes. This centrosomal localiz required for proper microtubule function. Cenexin1 recruits Plk1 via a C-terminal extension of c not present in ODF2. Cenexin1 is required for proper mitotic progression; depletion of Cenexin1 u to chromosome missegregation and apoptosis. The ODF2 (outer dense fiber 2) gene encodes bot Cenexin1, which have very different functions. ODF2 is a major component of sperm tail outer d (ODFs). ODFs are filamentous structures located on the outside of the axoneme in the midpiece piece of the mammalian sperm tail. They may help to maintain the passive elastic structures and the sperm tail, and may also modulate sperm motility.

Function:
Seems to be a major component of sperm tail outer dense fibers (ODF). ODFs are filamentous str on the outside of the axoneme in the midpiece and principal piece of the mammalian sperm tail a maintain the passive elastic structures and elastic recoil of the sperm tail. May have a modulating sperm motility. Functions as a general scaffold protein that is specifically localized at the distal/s appendages of mother centrioles. Component of the centrosome matrix required for the localizatio NIN to the centrosomes. Required for the formation and/or maintenance of normal CETN1 asser

Product Detail

Subunit:
Self-associates. Associates with microtubules and forms a fibrillar structure partially linked to th network. Interacts via its C-terminus with PLK1. Interacts with ODF1.

Subcellular Location:
Cytoplasm, cytoskeleton, centrosome. Cell projection, cilium. Cytoplasm, cytoskeleton, centroso Cytoplasm, cytoskeleton, spindle pole. Note=Localized at the microtubule organizing centers in spindle poles in mitosis. Localized at the distal/subdistal appendages of mother centrioles.

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

Post-translational modifications:
Tyrosine phosphorylated.

Similarity:
Belongs to the ODF2 family.

SWISS:
Q5BJF6

Gene ID:
4957

Database links:

Entrez Gene: 4957 Human

Entrez Gene: 18286 Mouse

Omim: 602015 Human

SwissProt: Q5BJF6 Human

SwissProt: A3KGV1 Mouse

Unigene: 129055 Human

Unigene: 330116 Mouse