

**Datasheet for 600-401-A46****Cenexin-1 Antibody****Overview**

<b>Description:</b>	Anti-Cenexin-1 (RABBIT) Antibody - 600-401-A46
<b>Item No.:</b>	600-401-A46
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, WB, IF
<b>Reactivity:</b>	Human, Chimpanzee, Macaque Monkey
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. 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.
<b>Synonyms:</b>	rabbit anti-Cenenxin1 antibody, anti-Cenenxin-1, anti-Cenenxin 1, ODF84 antibody, Outer dense fiber of sperm tail 2, Cenexin1 variant 1 antibody, KKT 4 antibody, Outer dense fiber protein 2, ODF2
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	ODF2
<b>Reactivity:</b>	Human, Chimpanzee, Macaque Monkey

<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to residues near the carboxy terminus.
<b>Purity/Specificity:</b>	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography using peptide coupled to agarose beads. This antibody is specific for human Cenexin-1 protein. A BLAST analysis was used to suggest cross-reactivity with Cenexin-1 from human, chimpanzee and macaque based on 100% homology with the immunizing sequence. Cross-reactivity with Cenexin-1 from other sources has not been determined.
<b>Relevant Links:</b>	<ul style="list-style-type: none"> <li><a href="#">NCBI - NP_702915</a></li> <li><a href="#">UniProtKB - Q5BJF6</a></li> <li><a href="#">GenelD - 4957</a></li> </ul>

## Application Details

<b>Tested Applications:</b>	ELISA, WB
<b>Suggested Applications:</b>	IF (Based on references)
<b>Application Note:</b>	This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 93 kDa in size corresponding to Cenexin-1 by western blotting in the appropriate cell lysate or extract.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:2,000 - 1:10,000
<b>IHC:</b>	User Optimized
<b>WB:</b>	1:200 - 1:2,000

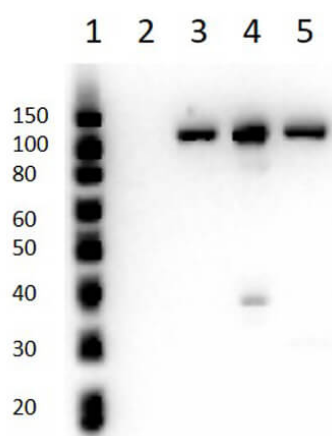
## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1.0 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Sodium Azide
<b>Stabilizer:</b>	None

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



### Western Blot

Western Blot of Rabbit Anti-Cenexin 1 Antibody. Lane 1: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 2: Hu Semen Lysate. Lane 3: MCF7 WCL (p/n W09-000-360). Lane 4: MOLT4 WCL (p/n W09-001-GK2). Lane 5: HeLa WCL (p/n W09-000-364). Load: 10µg/lane. Primary Antibody: Anti-Cenexin-1 at 1.0µg/mL overnight at 2 -8°C. Secondary Antibody: Goat anti-Rabbit IgG HRP (p/n 611-103-122) at 1:40000 for 30mins at RT. Block: 5% Casein/PBS. Predicted MW: ~95kDa. Observed MW: ~100kDa.

## References

- Gaume et al. Centrosomal nucleolin is required for microtubule network organization. *Cell Cycle* (2015)

## Disclaimer

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