

Datasheet for 200-401-C43**Cenexin-1 Antibody****Overview**

Description:	Anti-Cenexin-1 (RABBIT) Antibody - 200-401-C43
Item No.:	200-401-C43
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	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 (ODF84) and cenexin-2 are splicing variants that are expressed from the same genetic locus Outer Dense Fiber protein 2 (ODF2). Cenexin-1 and cenexin-2, regarded as centriolar proteins. Cenexin-1, a 93-kD variant of ODF2, is the major form of cenexin expressed in various somatic cells and tissues and associates with centrosomes. Cenexin-1 contains a unique C-terminal extension that appears to play a critical role in recruiting mitotic regulators such as polo-like kinase 1. In contrast, ODF2, a 70-kDa protein, is a major component of sperm tail cytoskeleton and abundantly expressed in testis. Additional evidence suggests that both of these proteins play important role in primary cilia formation. 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.
Synonyms:	rabbit anti-Cenexin-1 Antibody, ODF84 antibody, Outer dense fiber of sperm tail 2 antibody, Cenexin1 variant 1 antibody, KKT 4 antibody, Cenexin 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ODF2
Reactivity:	Mouse
Immunogen Type:	Recombinant Protein
Immunogen:	This protein-A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a truncated recombinant protein hCenexin1.
Purity/Specificity:	This antibody was purified from monospecific antiserum by protein-A purified immunoaffinity chromatography. It is directed against, and shows specific reactivity for, human Cenexin-1 protein. A BLAST analysis was used to suggest cross-reactivity with Cenexin-1 from human, chimpanzee, mouse, rat, bovine sources based on 100% homology with the immunizing sequence. Reactivity with Cenexin-1 protein from other sources has not been determined.
Relevant Links:	• UniProtKB - Q5BJF6 • NCBI - NP_702915 • GenelD - 4957

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Cenexin-1 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:500 - 1:10,000
WB:	1:500-1:2000

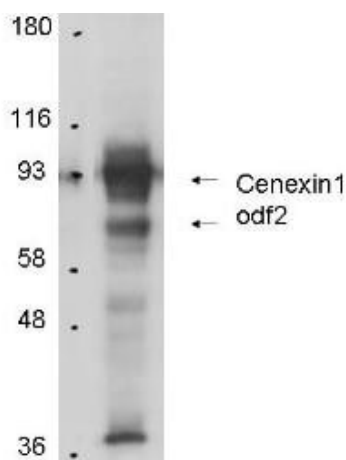
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.53 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Anti-Cenexin-1 in Western Blot using Rockland Immunochemical's Protein A Purified Anti-Cenexin-1 antibody shows detection of Cenexin-1 in total cell lysates from mouse F9 embryonic carcinoma cells. Arrowheads show detection of Cenexin-1 at approximately 93kDa and Outer dense fiber protein 2 (ODF2) at approximately 70kDa. In personal communication with K. Lee, CCR-NCI, Bethesda, MD.

Disclaimer

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