

Anti-Cenexin-1 ODF2 Antibody

Catalog Number: A05599

About ODF2

This antibody 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-kDa 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.

Overview

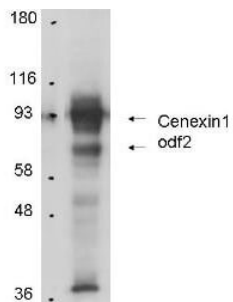
Product Name	Anti-Cenexin-1 ODF2 Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Cenexin-1 ODF2 Antibody (Catalog # A05599). Tested in ELISA, WB applications. This antibody reacts with Mouse.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	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 date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q5BJF6

Technical Details

Immunogen	This protein-A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a truncated recombinant protein hCenexin1.
Predicted Reactive Species	Bovine, Canine, Chicken, Monkey
Isotype	IgG

Form	Liquid (sterile filtered)
Concentration	1.53 mg/mL by UV absorbance at 280 nm
Purification	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.
Suggested Dilutions	ELISA: 1:500 - 1:10,000 WB: 1:500-1:2000 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.

Anti-Cenexin-1 ODF2 Antibody (A05599) Images



Anti-Cenexin-1 in Western Blot using Boster 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.

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