

Anti-Phospho-Cenexin-1 S796 ODF2 Antibody

Catalog Number: P05599

About ODF2

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.

Overview

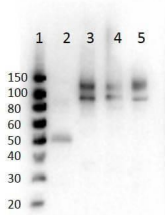
Product Name	Anti-Phospho-Cenexin-1 S796 ODF2 Antibody
Reactive Species	Human, Chimpanzee, Macaque monkey
Description	Boster Bio Anti-Phospho-Cenexin-1 S796 ODF2 Antibody (Catalog # P05599). Tested in ELISA, WB applications. This antibody reacts with Human, Chimpanzee, Macaque Monkey.
Application	ELISA, IHC, 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

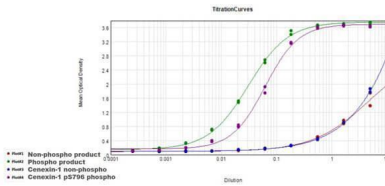
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to residues near S796 of human cenexin-1.
Predicted Reactive Species	Chimpanzee, Macaque
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	1.0 mg/mL by UV absorbance at 280 nm

Purification	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography using phospho-peptide coupled to agarose beads followed by solid phase adsorption against nonphospho-peptide. This antibody is specific for human Cenexin-1 protein phosphorylated at S796. 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.
Suggested Dilutions	ELISA: 1:2,000 - 1:10,000 IHC: User optimized WB: 1:200 - 1:2,000 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 phosphorylated Cenexin-1 by western blotting in the appropriate cell lysate or extract. This phospho-specific polyclonal antibody reacts with human Cenexin-1 pS796 and shows minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide.

Anti-Phospho-Cenexin-1 S796 ODF2 Antibody (P05599) Images



Western Blot of Rabbit Anti-Cenexin-1 pS796. Lane 1: MW. Lane 2: Human Semen Lysate. Lane 3: MCF7 WCL . Lane 4: Molt 4 WCL . Lane 5: HeLa WCL . Load: 10 μ g per lane. Blocking: . Primary Antibody: Anti-Cenexin-1 pS796 at 1 μ g/mL overnight at 2-8°C. Secondary Antibody: Goat anti-Rabbit HRP 1:40,000 diluted in for 30 minutes at RT. Expect: 93kDa.



ELISA of Rabbit Anti-Cenexin-1 pS796 Antibody. Antigen: BSA conjugates of Cenexin-1 pS796 (purple) and S796 (blue). Coating amount: 0.1 μ g per well. Primary antibody: Cenexin-1 pS796 Lot 35048 at 5 μ g/mL. Secondary antibody: Peroxidase goat anti-rabbit secondary antibody at 1:8,500. Substrate: TMB .

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