Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-A47

# Cenexin-1 phospho S796 Antibody

## Overview

| | |
|---|---|
| **Description:** | Anti-Cenexin-1 pS796 (RABBIT) Antibody - 600-401-A47 |
| **Item No.:** | 600-401-A47 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, WB |
| **Reactivity:** | Human, Chimpanzee, Macaque Monkey |
| **Host Species:** | Rabbit |

## Product Details

| | |
|---|---|
| **Background:** | 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. |
| **Synonyms:** | rabbit anti-Cenexin-1 pS796 Antibody, ODF84 antibody, Outer dense fiber of sperm tail 2, Cenexin1 variant 1 antibody, KKT 4 antibody, ODF2, Cenexin 1, Cenexin-1, Outer dense fiber protein 2 |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

| | |
|---|---|
| **Gene Name:** | ODF2 |
| **Reactivity:** | Human, Chimpanzee, Macaque Monkey |
| **PTM Specificity:** | Phosphorylation |
| **Immunogen Type:** | Conjugated Peptide |

| | |
|---|---|
| **Immunogen:** | This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic phospho-peptide corresponding to residues near S796 of human cenexin-1. |
| **Purity/Specificity:** | 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-1from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - Q5BJF6<br>• NCBI - NP_702915<br>• GeneID - 4957 |

## Application Details

| | |
|---|---|
| **Tested Applications:** | ELISA, WB |
| **Application Note:** | 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. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:2,000 - 1:10,000 |
| **IHC:** | User Optimized |
| **WB:** | 1:200 - 1:2,000 |

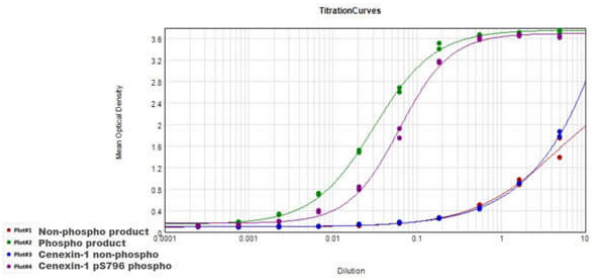
## Formulation

| | |
|---|---|
| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1.0 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 |

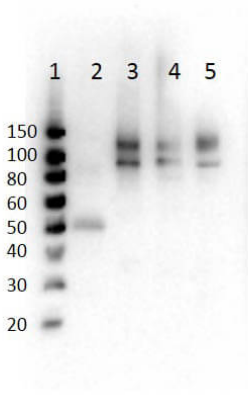
## Shipping & Handling

| | |
|---|---|
| **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




**ELISA**
ELISA of Rabbit Anti-Cenexin-1 pS796 Antibody. Antigen: BSA conjugates of Cenexin-1 pS796 (purple) and S796 (blue). Coating amount: 0.1 µg per well. Primary antibody: Cenexin-1 pS796 Lot 35048 at 5 µg/mL. Secondary antibody: Peroxidase goat anti-rabbit secondary antibody at 1:8,500. Substrate: TMB (p/n TMBE-0100).




**Western Blot**
Western Blot of Rabbit Anti-Cenexin-1 pS796. Lane 1: MW. Lane 2: Human Semen Lysate. Lane 3: MCF7 WCL (p/n W09-000-360). Lane 4: Molt 4 WCL (p/n W09-001-GK2). Lane 5: HeLa WCL (p/n W09-000-364). Load: 10µg per lane. Blocking: (p/n MB-073). Primary Antibody: Anti-Cenexin-1 pS796 at 1µg/mL overnight at 2-8°C. Secondary Antibody: Goat anti-Rabbit HRP (p/n 611-103-122) 1:40,000 diluted in (p/n MB-073) for 30 minutes at RT. Expect: 93kDa.

www.rockland.com
tech@rockland.com
+1 484.791.3823

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.