Order online now!

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

Datasheet for 200-401-F17

CPN10 Antibody

Overview

Description:	Anti-Cpn10 (RABBIT) Antibody - 200-401-F17
Item No.:	200-401-F17
Size:	100 µg
Applications:	IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat, Bovine, Dog, Guinea Pig, Pig, Rabbit, Sheep, Xenopus
Host Species:	Rabbit

Product Details

Background:	Chaperonin 10, otherwise known as Cpn10, (groES in E.coli) make up a family of small heart shock proteins with an approximate molecular mass of 10kDa (Hsp10s). Cpn10 acts as a co-chaperone and interacts with the Hsp60 family to promote proper folding of polypeptides. Cpn10 and Cpn60 both exhibit sevenfold axis of symmetry and function as a team in the protein folding and assembly process. Cpn10 has been located in human platelets, but is also present in human maternal serum. It has been reported that human Cpn10 is identical with early pregnancy factor, which is involved in control over cell growth and development. This identification suggest that Cpn10 may act like a hormone in stressful situations such as pregnancy.
Synonyms:	10kDa Chaperonin, Chaperonin 10, Cpn 10, EPF, GROES, Heat Shock 10kD protein1, Hsp10, HSPE1, Early-pregnancy factor
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HSPE1
Reactivity:	Human, Mouse, Rat, Bovine, Dog, Guinea Pig, Pig, Rabbit, Sheep, Xenopus
Immunogen Type:	Conjugated Peptide

Immunogen:	CPN10 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to the c-terminal region of human Cpn10 synthetic peptide.
Purity/Specificity:	Anti-Cpn10 Antibody was purified by Protein A chromatography. A BLAST analysis was used to suggest cross-reactivity with Cpn 10 from Human, Mouse, Rat, Bovine, Canine, Guinea pig, Pig, Rabbit, Sheep, and Xenopus based on 100% homology with the immunizing sequence. Cross-reactivity with Cpn10 from other sources has not been determined. Heat Shock research.
Relevant Links:	• NCBI - NP_002148.1 • GeneID - 3336 • UniProtKB - P61604

Application Details

Tested Applications:	IF, IHC, IP, WB
Application Note:	Anti-CPN10 Antibody is tested for use in WB, IHC-P, IF, and IP. Expect a band approximately ~10kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:200
IF:	10µg/ml
IHC:	User Optimized
IP:	User Optimized
WB:	1:1000

Formulation

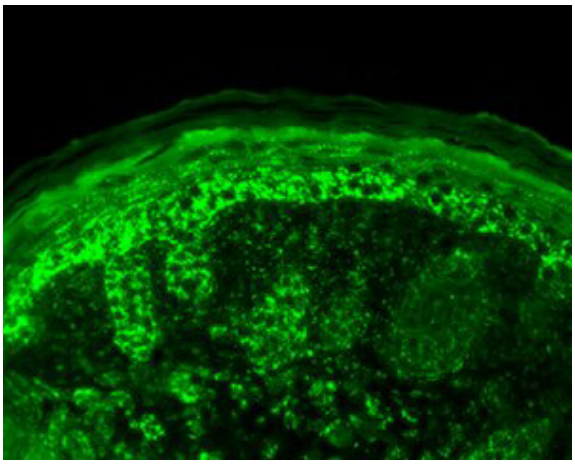
Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide

Shipping & Handling

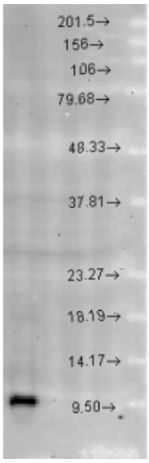
Shipping Condition:	Wet Ice

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



Immunofluorescence Microscopy
Immunofluorescence Microscopy of rabbit anti-Cpn10 antibody. Tissue: Mouse backskin sections of Transgenic mice. Fixation: N/A. Primary antibody: Cpn10 at 10µg/ml for 1h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Mitochondrion matrix. Staining: Cpn10 as precipitated green signal.



Western Blot
Western Blot of rabbit anti-Cpn10 antibody. Lane 1: Rat brain extract. Load: 10ug. Primary antibody: Cpn10 at 1:1000 overnight at 4°C. Secondary antibody: Goat anti-rabbit IgG HRP at 1:40,000 for 45 min at RT. Blocked: 5% Blotto overnight at 4°C. Predicated/observed size: 10.9 kDa, ~10 kDa for Cpn10.

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.