

Datasheet for 600-101-288**IDN3 Antibody****Overview**

Description:	Anti-IDN3 (GOAT) Antibody - 600-101-288
Item No.:	600-101-288
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Goat

Product Details

Background:	IDN3 (also known as Colon tumor susceptibility 2, DKFZp434L1319, FLJ13648, Mis 4, Scc-2, Delangin and Sister chromatid cohesion protein) is the mammalian homologue of Scc2 in <i>S. cerevisiae</i> and Mis4 in <i>S. pombe</i> . In yeast, this factor was originally identified genetically as being involved in sister chromatid cohesion; subsequent work has determined that it is not involved in cohesion directly but is required for the loading of cohesions onto chromatin during S phase. It shares 37% sequence identity with Nipped-B gene product of <i>Drosophila</i> , which facilitates enhancer-promoter communication of remote enhancers. The <i>Drosophila</i> protein is also homologous to a family of chromosomal adherins with broad roles in sister chromatid cohesion, chromosome condensation, and DNA repair. IDN3 is a nuclear protein that is widely expressed and found at the highest levels in heart, skeletal muscle, fetal and adult liver, and fetal and adult kidney. The protein is also found, albeit at lower levels of expression in thymus, placenta, peripheral leukocyte and small intestine. Multiple isoforms of the protein have been reported.
Synonyms:	goat anti-IDN3 Antibody, SCC2, NIPBL, CDLS antibody, Colon tumor susceptibility 2 antibody, Delangin antibody, DKFZp434L1319 antibody, FLJ11203 antibody
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IDN3
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Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity-purified antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acids 330-365 of Human IDN3.
Purity/Specificity:	This affinity purified antibody is directed against human IDN3 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human, rat, mouse, dog, bovine and orangutan based on 100% homology for the immunogen sequence. Expect reactivity with multiple splice variants of this protein. Cross reactivity with IDN3 homologues from other sources has not been determined.
Relevant Links:	• NCBI - 4760549 • UniProtKB - Q6KC79 • GeneID - 25836

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect bands at 316 kDa in size corresponding to IDN3 by western blotting in the appropriate cell lysate or extract. Splice variants for this protein may show molecular weights of 304 kDa and 122 kDa.
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
WB:	1:500 - 1:3,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.6 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

Western blot using Rockland's Affinity Purified anti-IDN3 antibody shows detection of bands at ~315 kDa and ~125 kDa corresponding to isoforms of IDN3 (arrow-heads) in mouse heart whole cell tissue extract (p/n W10-000-W014). Approximately 35 µg of lysate was separated on a 4-8% gel by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:1,500. Reaction occurred overnight at 4° followed by washes and reaction with a 1:20,000 dilution of IRDye™800 conjugated Rb-a-Goat IgG [H&L] MXHu (605-432-013) for 45 min at room temperature. IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



Western Blot

Western blot using Rockland's Affinity Purified anti-IDN3 antibody shows detection of a band ~300 kDa corresponding to IDN3 (arrowhead) in human kidney (lane 1) and human heart (lane 2) whole cell tissue extracts. Approximately 20µg of each lysate was separated by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:500. Use HRP conjugated Rb-a-Goat IgG [H&L] MXHu (605-403-013) for detection.

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.