Datasheet for ABIN100654

anti-NIPBL antibody (AA 330-365)

2 Images

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Overview

Quantity:	100 µg
Target:	NIPBL
Binding Specificity:	AA 330-365
Reactivity:	Human, Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This NIPBL antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Purpose:	IDN3 Antibody
Immunogen:	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. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against human IDN3 protein.
Characteristics:	Synonyms: goat anti-IDN3 Antibody, SCC2, NIPBL, CDLS antibody, Colon tumor susceptibility 2 antibody, Delangin antibody, DKFZp434L1319 antibody, FLJ11203 antibody
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.

Product Details

Sterility:	Sterile filtered

Target Details

Target:	NIPBL
Alternative Name:	IDN3 (NIPBL Products)
Background:	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 S. cerevisiae and Mis4 in S. pombe. 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 Drosophila, which facilitates enhancer-promoter communication of remote enhancers. The Drosophila 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.
Gene ID:	25836, 4760549
UniProt:	Q6KC79
Pathways:	Sensory Perception of Sound, Stem Cell Maintenance

Application Details

Application Notes:	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. Western Blot Dilution: 1:500 - 1:3,000 ELISA Dilution: 1:2,000 - 1:10,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.6 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Images

Western Blotting

Image 1. Western blot using 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 for detection.

Western Blotting

Image 2. Western blot using 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. 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 of800 conjugated Rb-a-Goat IgG [H&L] MXHu for 45 min at room temperature.800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

