abcam

Product datasheet

Recombinant Human NIPBL protein ab131913

1 References 1 Image

Description

Product name	Recombinant Human NIPBL protein
Expression system	Wheat germ
Accession	Q6KC79-2
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MKCLPENSAPLIEFANVSQGILLLLMLKQHLKNLCGFSDS KIQKYSPSES AKVYDKAINRKTGVHFHPKQTLDFLRSDMANSKITEEVKR SIVKQYLDFK LLMEHLDPDEEEEEGEVSASTNARNKAITSLLGGGSPKN NTAAETEDDES DGEDRGGGTSGVRRRRSQRISQRIT
Predicted molecular weight	46 kDa including tags
Amino acids	2524 to 2697

Specifications

Our **Abpromise guarantee** covers the use of **ab131913** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot SDS-PAGE
Form	Liquid
Additional notes	This product was previously labelled as IDN3.

Preparation and Storage

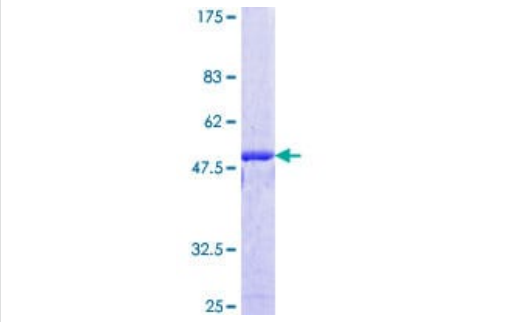
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles.

pH: 8.00
Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

Function	Probably plays a structural role in chromatin. Involved in sister chromatid cohesion, possibly by interacting with the cohesin complex.
Tissue specificity	Widely expressed. Highly expressed in heart, skeletal muscle, fetal and adult liver, fetal and adult kidney. Expressed at intermediates level in thymus, placenta, peripheral leukocyte and small intestine. Weakly or not expressed in brain, colon, spleen and lung.
Involvement in disease	Cornelia de Lange syndrome 1
Sequence similarities	Belongs to the SCC2/Nipped-B family. Contains 5 HEAT repeats.
Developmental stage	In embryos, it is expressed in developing limbs and later in cartilage primordia of the ulna and of various hand bones. Sites of craniofacial expression include the cartilage primordium of the basioccipital and basisphenoid skull bones and elsewhere in the head and face, including a region encompassing the mesenchyme adjacent to the cochlear canal. Also expressed in the spinal column, notochord and surface ectoderm sclerotome and what seem to be migrating myoblasts. Expressed in the developing heart in the atrial and ventricular myocardium and in the ventricular tubeculae but absent in the endocardial cushions. Also expressed in the developing esophagus, trachea and midgut loops, in the bronchi of the lung and in the tubules of the metanephros. Expression in organs and tissues not typically affected in CDL (e.g. the developing trachea, bronchi, esophagus, heart and kidney) may reflect a bias towards underreporting of more subtle aspects of the phenotype or problems that typically present later in life. Expressed in the mesenchyme surrounding the cochlear canal possibly reflecting the hearing impairment commonly found. Weakly or not expressed in embryonic brain.
Domain	Contains one Pro-Xaa-Val-Xaa-Leu (PxVxL) motif, which is required for interaction with chromoshadow domains. This motif requires additional residues -7, -6, +4 and +5 of the central Val which contact the chromoshadow domain.
Cellular localization	Nucleus.

Images



SDS-PAGE - Recombinant Human NIPBL protein (ab131913)

ab131913 on a 12.5% SDS-PAGE Stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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