Datasheet for ABIN968730

anti-Coilin antibody (AA 226-332)

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Overview

Quantity:	50 µg
Target:	Coilin (COIL)
Binding Specificity:	AA 226-332
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Coilin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human Coilin aa. 226-332
Clone:	56-Coilin
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	Coilin (COIL)
Alternative Name:	Coilin (COIL Products)
Background:	Ramon Cajal described small silver-staining organelles in the nuclei of pyramidal neurons, which have been referred to as cajal bodies or coiled bodies. An 80 kDa protein called p80 coilin was identified through its co-localization to coiled bodies. Coilin is a molecular marker of coiled bodies, but can also be found in the nucleoplasm, and may shuttle back and forth between the cytoplasm and nucleoplasm. Studies of GFP-coilin show that coiled bodies can move within the nucleoplasm to and from nucleoli. Other proteins that have been co-localized with coilin to the coiled bodies include cell cycle proteins, snRNPs, U3 snRNA, U7 snRNA, and several nucleolar proteins. Coiled bodies may recruit U7 snRNP and the stem-loop-binding protein to the chromosomal sites of histone gene transcription. Possibly, coilin is important for the formation of coiled bodies that act as sites for preassembly of transcriptosomes, which facilitate gene transcription and RNA processing.
Molecular Weight:	80 kDa
Pathways:	Ribonucleoprotein Complex Subunit Organization

Application Details

Comment:	Related Products: ABIN968586, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % 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:	-20 °C

Handling

Storage Comment:	Store undiluted at -20°C.

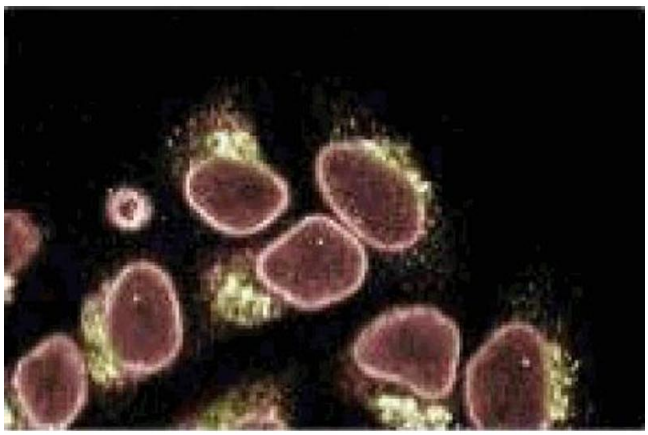
Publications

Product cited in:	Bellini, Gall: "Coilin shuttles between the nucleus and cytoplasm in Xenopus oocytes." in: **Molecular biology of the cell**, Vol. 10, Issue 10, pp. 3425-34, (1999) (PubMed). Andrade, Chan, Raska, Peebles, Roos, Tan: "Human autoantibody to a novel protein of the nuclear coiled body: immunological characterization and cDNA cloning of p80-coilin." in: **The Journal of experimental medicine**, Vol. 173, Issue 6, pp. 1407-19, (1991) (PubMed).

Images

Western Blotting

Image 1. Western blot analysis of Coilin on a K-562 cell lysate (Human bone marrow myelogenous leukemia, ATCC CCL-243). Lane 1: 1:500, lane 1: 1:1000, lane 3: 1:2000 dilution of the mouse anti-Coilin antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of HeLa cells (Human cervical epitheloid carcinoma, ATCC CCL-2).

Western Blotting

Image 3.

