

## Technical Data Sheet

## Purified Mouse Anti-Coilin

## Product Information

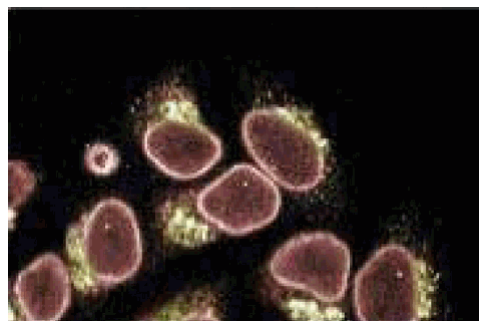
<b>Material Number:</b>	<b>612074</b>
<b>Size:</b>	50 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	56/Coilin
<b>Immunogen:</b>	Human Coilin aa. 226-332
<b>Isotype:</b>	Mouse IgG1
<b>Reactivity:</b>	QC Testing: Human Tested in Development: Mouse, Rat
<b>Target MW:</b>	80 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

## Description

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.



**Western blot analysis of Coilin on a K-562 cell lysate (Human bone marrow myelogenous leukemia; ATCC CCL-243).** Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti-Coilin antibody.



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

## Preparation and Storage

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Application Notes

## Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

## Recommended Assay Procedure:

**Western blot:** Please refer to [http://www.bdbiosciences.com/pharming/en/protocols/Western\\_Blotting.shtml](http://www.bdbiosciences.com/pharming/en/protocols/Western_Blotting.shtml)

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## Suggested Companion Products

Catalog Number	Name	Size	Clone
611550	K-562 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmlngen/protocols](http://www.bdbiosciences.com/pharmlngen/protocols) 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.

## References

Andrade LE, Chan EK, Raska I, Peebles CL, Roos G, Tan EM. Human autoantibody to a novel protein of the nuclear coiled body: immunological characterization and cDNA cloning of p80-coilin. *J Exp Med.* 1991; 173(6):1407-1419.(Biology)  
Bellini M, Gall JG. Coilin shuttles between the nucleus and cytoplasm in *Xenopus* oocytes. *Mol Biol Cell.* 1999; 10(10):3425-3434.(Biology)