

## COIL Antibody (monoclonal) (M05A)

Mouse monoclonal antibody raised against a partial recombinant COIL.

Catalog # AT1581a

### Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P38432</a>
<b>Other Accession</b>	<a href="#">NM_004645</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgM Kappa
<b>Clone Names</b>	4B8
<b>Calculated MW</b>	62608

### Additional Information

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<b>Gene ID</b>	8161
<b>Other Names</b>	Coilin, p80-coilin, COIL, CLN80
<b>Target/Specificity</b>	COIL (NP_004636, 477 a.a. ~ 575 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	COIL Antibody (monoclonal) (M05A) is for research use only and not for use in diagnostic or therapeutic procedures.

### Background

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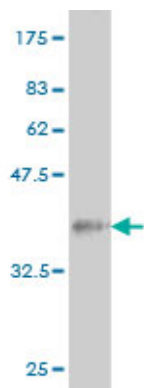
The protein encoded by this gene is an integral component of Cajal bodies (also called coiled bodies). Cajal bodies are nuclear suborganelles of varying number and composition that are involved in the post-transcriptional modification of small nuclear and small nucleolar RNAs. The N-terminus of the coilin protein directs its self-oligomerization while the C-terminus influences the number of nuclear bodies assembled per cell. Differential methylation and phosphorylation of coilin likely influences its localization among nuclear bodies and the composition and assembly of Cajal bodies. This gene has pseudogenes on chromosome 4 and chromosome 14.

### References

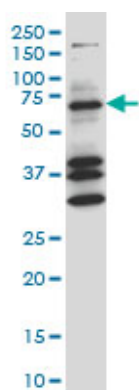
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The role of height-associated loci identified in genome wide association studies in the determination of pediatric stature. Zhao J, et al. BMC Med Genet, 2010 Jun 14. PMID 20546612. Coilin phosphorylation mediates interaction with SMN and SmB'. Toyota CG, et al. Chromosoma, 2010 Apr. PMID 19997741. Cajal-body formation correlates with differential coilin phosphorylation in primary and transformed cell lines. Hearst SM, et al. J Cell Sci, 2009 Jun 1. PMID 19435804. FLASH and NPAT positive but not Coilin positive Cajal Bodies correlate with cell ploidy. Bongiorno-Borbone L, et al. Cell Cycle, 2008 Aug. PMID 18677100. UbcH6 interacts with and ubiquitinates the SCA1 gene product ataxin-1. Hong S, et al. Biochem Biophys Res Commun, 2008 Jun 27. PMID 18439907.

## Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .



COIL monoclonal antibody (M05A), clone 4B8 Western Blot analysis of COIL expression in NIH/3T3 ( Cat # AT1581a )

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.