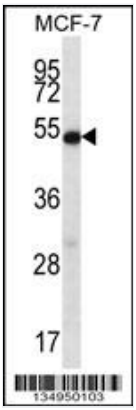
COIL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COIL, Polyclonal Antibody
Full Product Name	COIL Antibody (Center)
Product Gene Name	anti-COIL antibody
Product Synonym Names	Coilin; p80-coilin; COIL; CLN80
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This COIL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 157-186 amino acids from the Central region of human COIL.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	COIL peptide (MBS9221063) is used for blocking the activity of COIL antibody (MBS9215160)
Molecular Weight	62608
Immunogen Sequence Positions	157-186
OMIM	600272
3D Structure	ModBase 3D Structure for P38432
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-COIL antibody	Neuroscience
Applications Tested/Suitable for anti-COIL antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-COIL antibody	WB~~1:1000

Related Product Information for anti-COIL antibody	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.
Product References and Citations for anti-COIL antibody	Shanbhag, R., et al. FEBS Lett. 584(20):4351-4356(2010) Tapia, O., et al. Chromosoma 119(5):527-540(2010) Toyota, C.G., et al. Chromosoma 119(2):205-215(2010) Zhao, J., et al. BMC Med. Genet. 11, 96 (2010) : Hearst, S.M., et al. J. Cell. Sci. 122 (PT 11), 1872-1881 (2009) :
Other Notes	Small volumes of anti-COIL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for COIL purchase	MBS9215160 is an antibody targeting COIL. Also known as COIL Antibody (Center). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-COIL antibody
COIL Antibody (Center) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the COIL antibody detected the COIL protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COIL. It may not necessarily be applicable to this product.

NCBI GI #	4758024
NCBI GeneID	8161
NCBI Accession #	NP_004636.1
UniProt Primary Accession #	P38432
UniProt Secondary Accession #	B2R931
UniProt Related Accession #	P38432
GenBank Nucleotide #	NM_004645.2
NCBI Official Full Name	coilin
NCBI Official Synonym Full Names	coilin
NCBI Official Symbol	COIL

NCBI Official Synonym Symbols	CLN80; p80-coilin
UniProt Protein Name	Coilin
UniProt Synonym Protein Names	p80-coilin
Protein Family	Coilin
UniProt Gene Name	COIL
UniProt Synonym Gene Names	CLN80
UniProt Entry Name	COIL_HUMAN
NCBI Protein Information	coilin
NCBI Summary for COIL	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. [provided by RefSeq, Jul 2008]
UniProt Comments for COIL	coilin: an ubiquitous protein found in nuclear coiled bodies (CBS), nuclear suborganelles involved in the post-transcriptional modification of snRNPs and small nucleolar RNAs. snRNPs undergo 2'-O-methylation and pseudouridylation in CBS. Differential methylation and phosphorylation of coilin likely influences localization among nuclear bodies and the composition and assembly of CBS. Located in the interchromatin space between the nucleolus and the nucleus. Protein type: Oxidoreductase Chromosomal Location of Human Ortholog: 17q22 Cellular Component: nucleoplasm; Cajal body; membrane; cytoplasm; nucleolus; nucleus Molecular Function: protein C-terminus binding; identical protein binding; protein binding
Research Articles on COIL	**1.** The study shows that coilin-KO human cells that lack Cajal bodies are phenotypically normal with respect to telomere homeostasis.
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