

Properties

Storage instructions Store at -80°C. Please refer to protocols.

Components	1 kit
ab260123 - Human COIL knockout HeLa cell lysate	1 x 100µg
ab255552 - Human wild-type HeLa cell lysate	1 x 100µg

Cell type epithelial
Disease Adenocarcinoma
Gender Female
STR Analysis Amelogenin X D5S818: 11, 12 D13S317: 12, 13.3 D7S820: 8, 12 D16S539: 9, 10 vWA: 16, 18 TH01: 7 TPOX: 8, 12 CSF1PO: 9, 10

Target

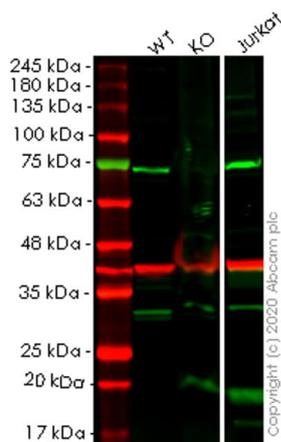
Function Is a component of the nuclear coiled bodies (CBS) which are involved in the function or assembly/disassembly of nucleoplasmic snRNPs. During mitosis, CBS disassemble, coinciding with a mitotic-specific phosphorylation of p80 coilin.
Tissue specificity Found in all the cell types examined.
Sequence similarities Belongs to the coilin family.
Cellular localization Nucleus. Nuclear coiled body located in the interchromatin space between the nucleolus and the nucleus.

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab257251 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 62 kDa.

Images



Western blot - Human COIL knockout HeLa cell lysate (ab257251)

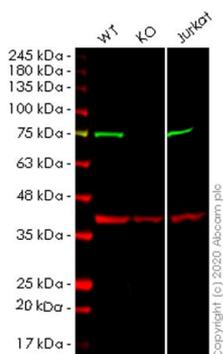
Lane 1: Wild-type HeLa cell lysate (20 µg)

Lane 2: COIL knockout HeLa cell lysate (20 µg)

Lane 3: Jurkat cell lysate (20 µg)

Lanes 1-3: Merged signal (red and green). Green - [ab177466](#) observed at 75 kDa. Red - loading control, [ab181602](#) observed at 37 kDa.

[ab177466](#) Anti-Coilin antibody [EPR7843(N)] - N-terminal was shown to specifically react with Coilin in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab261757](#) (knockout cell lysate ab257251) was used. Wild-type and Coilin knockout samples were subjected to SDS-PAGE. [ab177466](#) and Anti-GAPDH antibody [EPR16891] - Loading Control ([ab181602](#)) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed ([ab216772](#)) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed ([ab216777](#)) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Western blot - Human COIL knockout HeLa cell lysate (ab257251)

Lane 1: Wild-type HeLa cell lysate (20 µg)

Lane 2: COIL knockout HeLa cell lysate (20 µg)

Lane 3: Jurkat cell lysate (20 µg)

Lanes 1-3: Merged signal (red and green). Green - [ab87913](#) observed at 75 kDa. Red - loading control, [ab181602](#) observed at 37 kDa.

[ab87913](#) Anti-Coilin antibody [IH10] was shown to specifically react with Coilin in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab261757](#) (knockout cell lysate ab257251) was used. Wild-type and Coilin knockout samples were subjected to SDS-PAGE. [ab87913](#) and Anti-GAPDH antibody [EPR16891] - Loading Control ([ab181602](#)) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed ([ab216772](#)) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed ([ab216777](#)) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.

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Mut  CTAGGAAGGCCCCAGAAGCTGAAGCCGAAGCG-----AGACTAATGAGATCTGTGA
      |||
WT   CTAGGAAGGCCCCAGAAGCTGAAGCCGAAGCGCTGGCCGATGAGACTAATGAGATCTGTGA
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Homozygous: 10 bp deletion in exon 1

Sanger Sequencing - Human COIL knockout HeLa
cell lysate (ab257251)

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

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