



Anti-CLP1 (full length) polyclonal antibody (DPABH-10034)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description Polynucleotide kinase that can phosphorylate the 5-hydroxyl groups of double-stranded RNA (dsRNA), single-stranded RNA (ssRNA), double stranded DNA (dsDNA) and double-stranded DNA:RNA hybrids. dsRNA is phosphorylated more efficiently than dsDNA, and the RNA component of a DNA:RNA hybrid is phosphorylated more efficiently than the DNA component. Appears to have roles in both tRNA splicing and mRNA 3-end formation. Component of the tRNA splicing endonuclease complex. Phosphorylates the 5-terminus of the tRNA 3-exon during tRNA splicing; this phosphorylation event is a prerequisite for the subsequent ligation of the two exon halves and the production of a mature tRNA. Component of the pre-mRNA cleavage complex II (CF-II), which seems to be required for mRNA 3-end formation. Also phosphorylates the 5-terminus of exogenously introduced short interfering RNAs (siRNAs), which is a necessary prerequisite for their incorporation into the RNA-induced silencing complex (RISC). However endogenous siRNAs and microRNAs (miRNAs) that are produced by the cleavage of dsRNA precursors by DICER1 already contain a 5-phosphate group, so this protein may be dispensible for normal RNA-mediated gene silencing.

Immunogen Full length protein corresponding to Human HEAB aa 1-425. (NP_006822.1). Sequence:
 MGEEANDDKKPTTKFELERETELRFEVEASQSVQLELLTGMAEIFGTELT
 RNKKFTFDAGAKVAVFTWHGCSVQLSGRTEVAYVSKDTPMLLYLNTHTAL
 EQMRRQAEKEEERGPRVMVVGPTDVGKSTVCRLLLNAYAVRLGRRPTYVEL
 DVGQGSVSIPGTMGALYIER

Isotype IgG

Source/Host Mouse

Species Reactivity Human

Purification Protein A purified

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|---------------------|--|
| Conjugate | Unconjugated |
| Applications | WB |
| Format | Liquid |
| Size | 50 µg |
| Buffer | pH: 7.20; Constituent: 100% PBS |
| Preservative | None |
| Storage | Shipped at 4°C. Store at 4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | CLP1 cleavage and polyadenylation factor I subunit 2 [Homo sapiens] |
| Official Symbol | CLP1 |
| Synonyms | CLP1; cleavage and polyadenylation factor I subunit 1; HEAB; PCH10; hClp1; polyribonucleotide 5-hydroxyl-kinase Clp1; ATP/GTP-binding protein; polynucleotide kinase Clp1; polyadenylation factor Clp1; homolog of yeast CFIA subunit Clp1p; pre-mRNA cleavage complex II protein Clp1; CLP1, cleavage and polyadenylation factor I subunit, homolog; |
| Entrez Gene ID | 10978 |
| Protein Refseq | NP_001136069.1 |
| UniProt ID | Q92989 |
| Pathway | Cleavage of Growing Transcript in the Termination Region; Processing of Capped Intron-Containing Pre-mRNA; Processing of Intronless Pre-mRNAs; RNA Polymerase II Transcription Termination |
| Function | ATP binding; ATP-dependent polydeoxyribonucleotide 5-hydroxyl-kinase activity; ATP-dependent polyribonucleotide 5-hydroxyl-kinase activity; ATP-dependent polyribonucleotide 5-hydroxyl-kinase activity |