

**CLP1 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI15077****Specification**

---

**CLP1 antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">O92989</a>
Other Accession	<a href="#">NM_001142597</a> , <a href="#">NP_001136069</a>
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41kDa kDa

**CLP1 antibody - N-terminal region - Additional Information****Gene ID** 10978**Alias Symbol** HEAB, hClp1**Other Names**

Polyribonucleotide 5'-hydroxyl-kinase Clp1 {ECO:0000255|HAMAP-Rule:MF\_03035}, 2.7.1.78 {ECO:0000255|HAMAP-Rule:MF\_03035}, Polyadenylation factor Clp1 {ECO:0000255|HAMAP-Rule:MF\_03035}, Polynucleotide kinase Clp1 {ECO:0000255|HAMAP-Rule:MF\_03035}, Pre-mRNA cleavage complex II protein Clp1 {ECO:0000255|HAMAP-Rule:MF\_03035}, CLP1 {ECO:0000255|HAMAP-Rule:MF\_03035}, HEAB

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-CLP1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

CLP1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**CLP1 antibody - N-terminal region - Protein Information****Name** CLP1 {ECO:0000255|HAMAP-Rule:MF\_03035}**Synonyms** HEAB**Function**

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. Plays a key role 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 (PubMed:<a href="http://www.uniprot.org/citations/24766809" target="\_blank">24766809</a>, PubMed:<a href="http://www.uniprot.org/citations/24766810" target="\_blank">24766810</a>). Its role in tRNA splicing and maturation is required for cerebellar development (PubMed:<a href="http://www.uniprot.org/citations/24766809" target="\_blank">24766809</a>, PubMed:<a href="http://www.uniprot.org/citations/24766810" target="\_blank">24766810</a>). 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 dispensable for normal RNA-mediated gene silencing.

#### Cellular Location

Nucleus {ECO:0000255|HAMAP-Rule:MF\_03035, ECO:0000269|PubMed:11060040, ECO:0000269|PubMed:24766810}

#### CLP1 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### CLP1 antibody - N-terminal region - Images



Host: Rabbit  
Target Name: CLP1  
Antibody Dilution: 1.0µg/ml  
Sample Tissue: HepG2 cell lysate

CLP1 is supported by BioGPS gene expression data to be expressed in HepG2

**CLP1 antibody - N-terminal region - References**

Tanabe S.,et al.Blood 88:3535-3545(1996).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

de Vries H.,et al.EMBO J. 19:5895-5904(2000).

Paushkin S.V.,et al.Cell 117:311-321(2004).