

**HEAB Antibody**  
**Rabbit mAb**  
**Catalog # AP92751**

## Specification

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### HEAB Antibody - Product Information

Application	WB, IHC, FC
Primary Accession	<a href="#">O92989</a>
Clonality	Monoclonal
<b>Other Names</b>	
clp1; hClp1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	47646 Da

### HEAB Antibody - Additional Information

Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human HEAB
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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### HEAB Antibody - 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 dispensible for normal RNA-mediated gene silencing.

#### Cellular Location

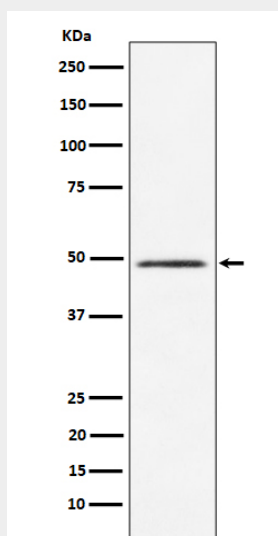
Nucleus {ECO:0000255|HAMAP-Rule:MF\_03035, ECO:0000269|PubMed:11060040, ECO:0000269|PubMed:24766810}

#### HEAB Antibody - 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](#)

#### HEAB Antibody - Images



Western blot analysis of HEAB expression in HeLa cell lysate.