

**Anti-HEAB Rabbit Monoclonal Antibody**  
**Catalog # ABO16168****Specification****Anti-HEAB Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, FC
Primary Accession	<a href="#">Q92989</a>
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-HEAB Rabbit Monoclonal Antibody . Tested in WB, IHC, Flow Cytometry applications. This antibody reacts with Human.

**Anti-HEAB Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 10978

**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

**Calculated MW**

48 kDa KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>FC 1:50

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human HEAB

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-HEAB Rabbit Monoclonal 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: [24766809](http://www.uniprot.org/citations/24766809), PubMed: [24766810](http://www.uniprot.org/citations/24766810)). Its role in tRNA splicing and maturation is required for cerebellar development (PubMed: [24766809](http://www.uniprot.org/citations/24766809), PubMed: [24766810](http://www.uniprot.org/citations/24766810)). 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

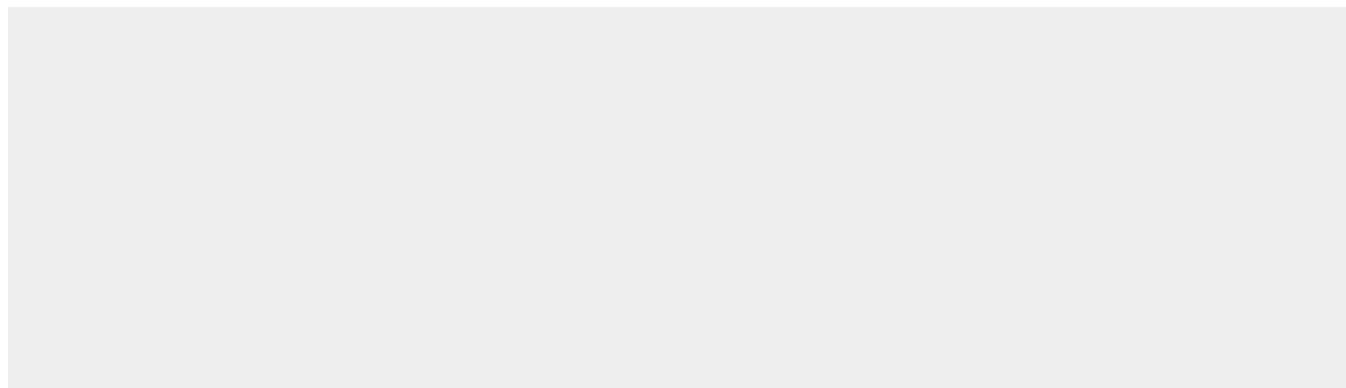
Nucleus {ECO:0000255|HAMAP-Rule:MF\_03035, ECO:0000269|PubMed:11060040, ECO:0000269|PubMed:24766810}

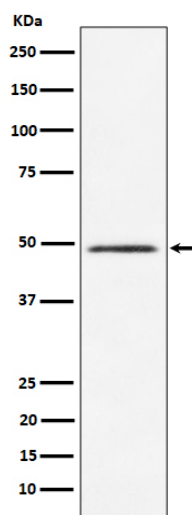
### Anti-HEAB Rabbit Monoclonal Antibody - Protocols

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](#)

### Anti-HEAB Rabbit Monoclonal Antibody - Images





Western blot analysis of HEAB expression in HeLa cell lysate.