

# HEAB Rabbit mAb

Catalog # AP78779

## Product Information

<b>Application</b>	WB, IHC-P, FC
<b>Primary Accession</b>	<a href="#">Q92989</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human HEAB
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	47646

## Additional Information

<b>Gene ID</b>	10978
<b>Other Names</b>	CLP1
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A FC~~1:10~50
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

<b>Name</b>	CLP1 {ECO:0000255 HAMAP-Rule:MF_03035}
<b>Synonyms</b>	HEAB
<b>Function</b>	<p>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="#">24766809</a>, PubMed:<a href="#">24766810</a>). Its role in tRNA splicing and maturation is required for cerebellar development (PubMed:<a href="#">24766809</a>, PubMed:<a href="#">24766810</a>). Component of the pre-mRNA</p>

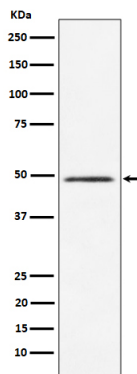
cleavage complex II (CF-II), which seems to be required for mRNA 3'-end formation. Also phosphorylates the 5'-terminus of exogenously introduced short interfering RNAs (siRNAs), which is a necessary prerequisite for their incorporation into the RNA-induced silencing complex (RISC). However, endogenous 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}

## Images

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