

ERAL1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17620c

Product Information

Application	WB, E
Primary Accession	O75616
Other Accession	NP_005693.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37682
Calculated MW	48350
Antigen Region	152-180

Additional Information

Gene ID	26284
Other Names	GTPase Era, mitochondrial, H-ERA, hERA, Conserved ERA-like GTPase, CEGA, ERA-W, ERA-like protein 1, ERAL1, HERA
Target/Specificity	This ERAL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 152-180 amino acids from the Central region of human ERAL1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ERAL1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ERAL1
Synonyms	HERA

Function	Probable GTPase that plays a role in the mitochondrial ribosomal small subunit assembly. Specifically binds the 12S mitochondrial rRNA (12S mt-rRNA) to a 33 nucleotide section delineating the 3' terminal stem-loop region. May act as a chaperone that protects the 12S mt-rRNA on the 28S mitoribosomal subunit during ribosomal small subunit assembly.
Cellular Location	Mitochondrion matrix. Mitochondrion inner membrane; Peripheral membrane protein. Note=Localizes on the matrix side on the mitochondrial inner membrane

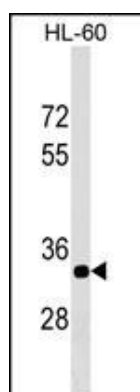
Background

Era is an essential GTPase that is required for proper cell cycle progression and cell division in *E. coli*. Human homologues have been isolated which have been designated ERAL1A and ERAL1B.

References

Dennerlein, S., et al. *Biochem. J.* 430(3):551-558(2010)
Hillman, R.T., et al. *Genome Biol.* 5 (2), R8 (2004) :
Akiyama, T., et al. *Genes Cells* 6(11):987-1001(2001)
Britton, R.A., et al. *Genomics* 67(1):78-82(2000)

Images



ERAL1 Antibody (Center) (Cat. #AP17620c) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the ERAL1 antibody detected the ERAL1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.