



HELB Rabbit pAb

Catalog No	YP-Ab-19046
Isotype	IgG
Reactivity	Human,Mouse
Applications	WB
Gene Name	HELB
Immunogen	Synthesized peptide derived from human HELB
Specificity	This antibody detects endogenous levels of HELB at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	hDHB;EC:3.6.4.12;HELB;DNA helicase B (hDHB) (EC 3.6.4.12)
Observed Band	120-140 kDa
Calculated Molecular Weight	1087 aa, 123 kDa
Cell Pathway	Nucleus . Cytoplasm . Chromosome . Predominantly nuclear (PubMed:15146062). Phosphorylation at Ser-967 by CDK2 during the G1/S transition results in its nuclear export into the cytoplasm as cells approach and progress through S phase (PubMed:15146062). Following DNA damage, recruited to sites of double-strand breaks by the RPA complex (PubMed:26774285). Recruited to chromatin following DNA damage induced by UV irradiation, or camptothecin or hydroxyurea treatment (PubMed:22194613). .
Tissue Specificity	Highly expressed in testis and thymus and weakly in liver, spleen, kidney and brain.
Function	5'-3' DNA helicase involved in DNA damage response by acting as an inhibitor of DNA end resection . Recruitment to single-stranded DNA (ssDNA) following DNA damage leads to inhibit the nucleases catalyzing resection, such as EXO1, BLM and DNA2, possibly via the 5'-3' ssDNA translocase activity of HELB . As cells approach S phase, DNA end resection is promoted by the nuclear export of HELB following phosphorylation . Acts independently of TP53BP1 . Unwinds



duplex DNA with 5'-3' polarity. Has single-strand DNA-dependent ATPase and DNA helicase activities. Prefers ATP and dATP as substrates . During S phase, may facilitate cellular recovery from replication stress .

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images