

Product Name: KD-Validated CLP1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01431**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 47.6kDa

Antigen Information

Gene Name	CLP1
Alternative Names	CLP1; Cleavage Factor Polyribonucleotide Kinase Subunit 1; HEAB; Cleavage And Polyadenylation Factor I Subunit 1; Polyribonucleotide 5'-Hydroxyl-Kinase Clp1; Pre-mRNA Cleavage Complex II Protein Clp1; Polyadenylation Factor Clp1; Polynucleotide Kinase Clp1; EC 2.7.1.78; HClp1; CLP1, Cleavage And Polyadenylation Factor I Subunit, Homolog (S. Cerevisiae); Polyribonucleotide 5'-Hydroxyl-Kinase; Homolog Of Yeast CFIA Subunit Clp1p; ATP/GTP-Binding Protein; ATP/GTPbinding Protein; HCLP1
Gene ID	10978.0
SwissProt ID	Q92989
Immunogen	A synthesized peptide derived from human HEAB

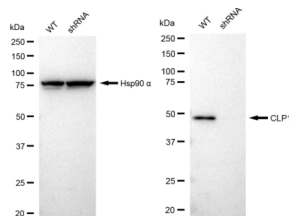
Background

This gene encodes a member of the Clp1 family. The encoded protein is a multifunctional kinase which is a component of the tRNA splicing endonuclease complex and a component of the pre-mRNA cleavage complex II. This protein is implicated in tRNA, mRNA, and siRNA maturation. Mutations in this gene are associated with pontocerebellar hypoplasia type 10 (PCH10). Alternatively splice transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2014]

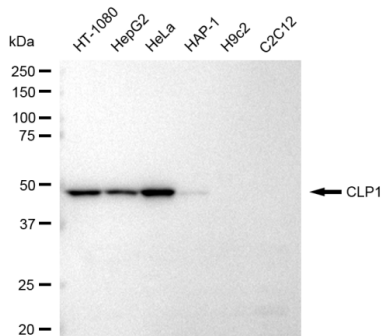
Research Area

Epigenetics and Nuclear Signaling

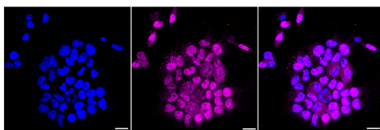
Image Data



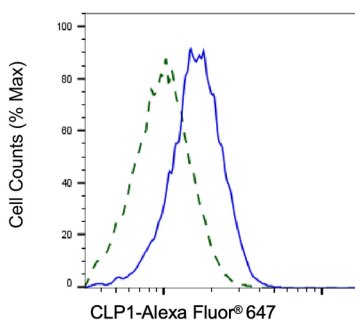
Western blotting analysis using CLP1 antibody (KVA01431). CLP1 expression in wild type (WT) and CLP1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CLP1 antibody (KVA01431, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



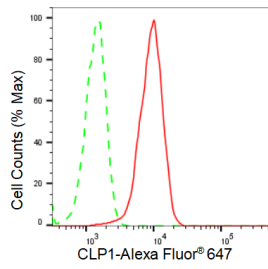
Western blotting analysis using CLP1 antibody (KVA01431). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CLP1 antibody (KVA01431, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with CLP1 antibody (KVA01431, 1:1,000). Nuclei were stained blue with DAPI; CLP1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of CLP1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with CLP1 antibody (KVA01431, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of CLP1 expression in HeLa cells using CLP1 antibody (KVA01431, 1:2,000). Green, isotype control; red, CLP1.