



CD3EAP rabbit pAb

Cat No.:ES4563

For research use only

Overview

Product Name	CD3EAP rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human CD3EAP. AA range:441-490
Specificity	CD3EAP Polyclonal Antibody detects endogenous levels of CD3EAP protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	DNA-directed RNA polymerase I subunit RPA34
Gene Name	CD3EAP
Cellular localization	Nucleus, nucleolus . Chromosome . Found at the fibrillar centers of the nucleolus in interphase and during cell division it is localized to the nucleolus organizer regions of the chromosomes.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	55kD
Human Gene ID	10849
Human Swiss-Prot Number	O15446
Alternative Names	CD3EAP; ASE1; CAST; PAF49; DNA-directed RNA polymerase I subunit RPA34; A34.5; Antisense to ERCC-1 protein; ASE-1; CD3-epsilon-associated protein; CAST; CD3E-associated protein; RNA

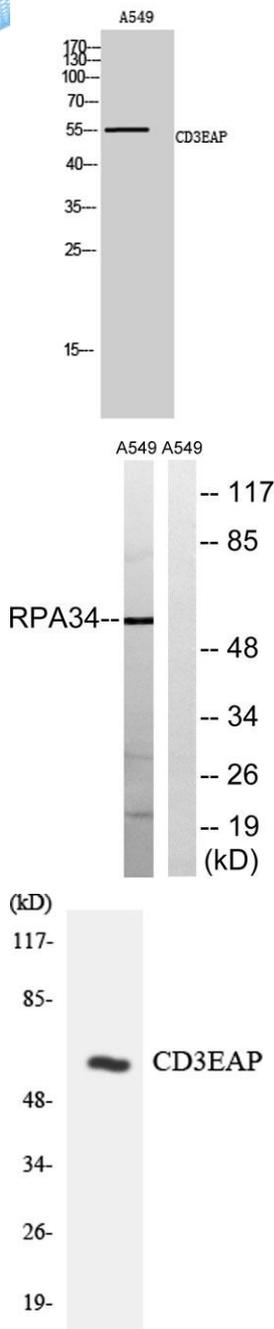




Background

polymerase I-associated factor PAF49
caution:It is not known whether the so-called human ASE1 and human CAST proteins represent two sides of a single gene product with sharply different functional characteristics. Experiments done with the mouse homolog protein are in favor of an implication of this gene in rRNA transcription instead of T-cell receptor signaling.,function:DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase I which synthesizes ribosomal RNA precursors. Isoform 1 is involved in UBTF-activated transcription, presumably at a step following PIC formation.,function:Isoform 2 has been described as a component of preformed T-cell receptor (TCR) complex.,miscellaneous:It is in an antisense orientation to and overlaps the gene of the DNA repair enzyme ERCC1. This gene overlap is conserved in mouse suggesting an important biologic function.,PTM:Isoform 1 is phosphorylated on tyrosine residues in initiation-competent Pol I-beta complexes but not in Pol I-alpha complexes.,PTM:Isoform 2 undergoes tyrosine phosphorylation upon T-cell receptor (TCR) stimulation. This phosphorylation has not been confirmed by other group.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the eukaryotic RPA34 RNA polymerase subunit family.,subcellular location:Found at the fibrillar centers of the nucleolus in interphase and during cell division it is localized to the nucleolus organizer regions of the chromosomes.,subunit:Component of the RNA polymerase I (Pol I) complex consisting of at least 13 subunits. Interacts with TAF1A thereby associates with the SL1 complex. Interacts with UBTF. Interacts with POLR1E/PRAF1 through its N-terminal region (By similarity). Isoform 2 interacts with CD3E.,





Western Blot analysis of A549 cells using CD3EAP Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).

Western blot analysis of lysates from A549 cells, using CD3EAP Antibody. The lane on the right is blocked with the synthesized peptide.

Western blot analysis of the lysates from HUVEC cells using CD3EAP antibody.





ELK Biotechnology



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA, pH 9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4° overnight). 3, Secondary antibody was diluted at 1:200 (room temperature, 45 min).



+86-27-59760950

ELKbio@ELKbiotech.com

www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road, Wuhan East Lake Hi-tech Development Zone, Hubei, P.R.C