



ERCC6L Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58427

Specification

ERCC6L Polyclonal Antibody - Product Information

Application Primary Accession

Reactivity Host Clonality Calculated MW **Physical State** Immunogen

Isotype **Purity**

Buffer

Epitope Specificity

affinity purified by Protein A

SUBCELLULAR LOCATION

SIMILARITY

SUBUNIT

Post-translational modifications

Important Note

IHC-P, IHC-F, IF, E

O2NKX8

Rat, Pig, Bovine

Rabbit Polyclonal 141 KDa Liquid

KLH conjugated synthetic peptide derived

from human ERCC6L

301-400/1250

laG

0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

Chromosome, centromere. Chromosome, centromere, kinetochore. Note=Localizes to kinetochores, inner centromeres and thin threads connecting separating chromosomes even during anaphase. In prometaphase cells, it mostly concentrates in between kinetochores. In metaphase, it localizes to numerous thin threads that stretch between sister kinetochores of the aligned chromosomes and are composed of catenated centromeric DNA. Evolution from inner centromeres to thin threads takes place in response to tension. Resolution of thin threads requires topoisomerase 2-alpha (TOP2A) after anaphase onset. Belongs to the SNF2/RAD54 helicase family. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal

domain. Contains 2 TPR repeats.

Interacts with PLK1, which phosphorylates it. Both proteins are mutually dependent on each other for correct subcellular

localization.

Phosphorylation by PLK1 prevents the association with chromosome arms and

restricts its localization to the kinetochore-centromere region.

This product as supplied is intended for research use only, not for use in human,



therapeutic or diagnostic applications.

Background Descriptions

ERCC6L belongs to the SNF2 ATPase family and acts as an essential component of the spindle assembly checkpoint. It contributes to the mitotic checkpoint by recruiting MAD2 to kinetochores and monitoring tension on centromeric chromatin. It acts as a tension sensor that associates with catenated DNA which is stretched under tension until it is resolved during anaphase. ERCC6L may also play a role in the teratogenic action of alcohol.

ERCC6L Polyclonal Antibody - Additional Information

Gene ID 54821

Other Names

DNA excision repair protein ERCC-6-like, 3.6.4.12, ATP-dependent helicase ERCC6-like, PLK1-interacting checkpoint helicase, Tumor antigen BJ-HCC-15, ERCC6L

Dilution

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<span class ="dilution IHC-P">IHC-P~~N/A</span><br \><span class</pre>
="dilution IHC-F">IHC-F~~N/A</span><br \><span class
="dilution IF">IF~~1:50~200</span><br \><span class ="dilution E">E~~N/A</span>
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Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

ERCC6L Polyclonal Antibody - Protein Information

Name ERCC6L

Function

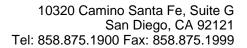
DNA helicase that acts as a tension sensor that associates with catenated DNA which is stretched under tension until it is resolved during anaphase (PubMed: 17218258, PubMed:23973328). Functions as ATP-dependent DNA translocase (PubMed: 23973328, PubMed:28977671). Can promote Holliday junction branch migration (in vitro) (PubMed:23973328).

Cellular Location

Chromosome, centromere. Chromosome, centromere, kinetochore. Chromosome. Note=Localizes to kinetochores, inner centromeres and thin threads connecting separating chromosomes even during anaphase. In prometaphase cells, it mostly concentrates in between kinetochores. In metaphase, it localizes to numerous thin threads that stretch between sister kinetochores of the aligned chromosomes and are composed of catenated centromeric DNA. Evolution from inner centromeres to thin threads takes place in response to tension. Resolution of thin threads requires topoisomerase 2-alpha (TOP2A) after anaphase onset.

ERCC6L Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.





• Western Blot

- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

ERCC6L Polyclonal Antibody - Images