

ERCC6L Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58427**Specification****ERCC6L Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q2NKX8
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	141 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ERCC6L
Epitope Specificity	301-400/1250
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	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.
SIMILARITY	Interacts with PLK1, which phosphorylates it. Both proteins are mutually dependent on each other for correct subcellular localization.
SUBUNIT	Phosphorylation by PLK1 prevents the association with chromosome arms and restricts its localization to the kinetochore-centromere region.
Post-translational modifications	This product as supplied is intended for research use only, not for use in human,
Important Note	

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

IHC-P ~ ~ N/A
IHC-F ~ ~ N/A
IF ~ ~ 1:50 ~ 200
E ~ ~ N/A

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](http://www.uniprot.org/citations/17218258), PubMed: [23973328](http://www.uniprot.org/citations/23973328)). Functions as ATP-dependent DNA translocase (PubMed: [23973328](http://www.uniprot.org/citations/23973328), PubMed: [28977671](http://www.uniprot.org/citations/28977671)). Can promote Holliday junction branch migration (in vitro) (PubMed: [23973328](http://www.uniprot.org/citations/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](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ERCC6L Polyclonal Antibody - Images