

ERCC6L Rabbit pAb

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Product Information

Application IHC-P, IHC-F, IF, E

Primary Accession Q2NKX8

Reactivity Rat, Pig, Mouse, Horse

Host Rabbit
Clonality Polyclonal
Calculated MW 141103
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.

SIMILARITY 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.

Post-translational 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.

Additional Information

SUBUNIT

Important Note

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=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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.

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).

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.