

For Research Use Only

# ERI1 Polyclonal antibody

Catalog Number: 14592-1-AP



## Basic Information

<b>Catalog Number:</b> 14592-1-AP	<b>GenBank Accession Number:</b> BC035279	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 800 µg/ml	<b>GeneID (NCBI):</b> 90459	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8IV48	
<b>Isotype:</b> IgG	<b>Full Name:</b> exoribonuclease 1	
<b>Immunogen Catalog Number:</b> AG6125	<b>Calculated MW:</b> 40 kDa	
	<b>Observed MW:</b> 46 kDa	

## Applications

**Tested Applications:**  
IF/ICC, IHC, WB, ELISA

**Species Specificity:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** K-562 cells, HepG2 cells, HL-60 cells

**IHC :** human liver cancer tissue, human testis tissue

**IF :** HepG2 cells,

## Background Information

ERI1, also named as HEXO, 3'HEXO and THEX1, contains one exonuclease domain and one SAP domain. The SAP domain is necessary for binding to the stem-loop structure of histone mRNAs and to form the ternary complex with SLBP, but not for 3'-end histone mRNA exonuclease activity. It is a RNA exonuclease that binds to the 3'-end of histone mRNAs and degrades them, suggesting that it plays an essential role in histone mRNA decay after replication. It is able to bind other mRNAs. ERI1 is required for 5.8S rRNA 3'-end processing. It also binds to 5.8s ribosomal RNA. ERI1 binds with high affinity to the stem-loop structure of replication-dependent histone pre-mRNAs.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

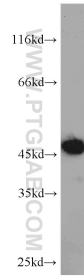
T: 4006900926

E: Proteintech-CN@ptglab.com

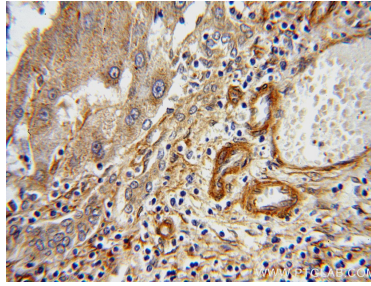
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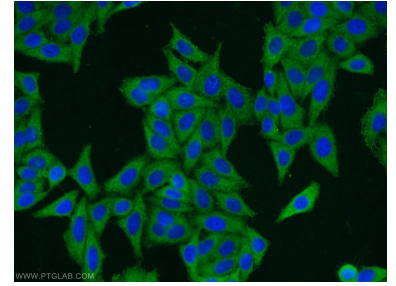
## Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 14592-1-AP (ER1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer using 14592-1-AP (ER1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells using 14592-1-AP (ER1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).