

For Research Use Only

# hnRNP-E1 Polyclonal antibody

Catalog Number: 14523-1-AP

Featured Product

13 Publications



## Basic Information

### Catalog Number:

14523-1-AP

### Size:

550 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6007

### GenBank Accession Number:

BC039742

### GeneID (NCBI):

5093

### UNIPROT ID:

Q15365

### Full Name:

poly(rC) binding protein 1

### Calculated MW:

37 kDa

### Observed MW:

37 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:400-1:1600

IF/ICC 1:500-1:2000

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, pig

### Positive Controls:

**WB** : K-562 cells, MCF-7 cells, HeLa cells, HepG2 cells, NIH/3T3 cells

**IHC** : human lung cancer tissue,

**IF/ICC** : HepG2 cells, NIH/3T3 cells, A431 cells, sodium arsenite treated HeLa cells

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

## Background Information

hnRNP-E1 (heterogeneous nuclear ribonucleoprotein E1) is also named as PCBP1 and Alpha-CP1. Poly(rC)-binding protein 1 (PCBP1 also called hnRNP E1) belongs to a hnRNP family that is composed of hnRNP K/J and the alpha-complex proteins (PCBP1-4 $\alpha$  or CP1-4). Proteins in this family contain three hnRNP K homology (KH) domains for RNA-binding. The human PCBP1 gene encodes the hnRNP E1 protein, and was initially defined as clone sub2.3, with poly(C)-binding activity and observed similarity to hnRNP E2 (PMID: 8152927). hnRNP-E1 is an RNA binding protein that regulates diverse processes including translation and splicing (PMID:29396052). hnRNP E1 regulates splicing of EMT-associated genes including CD44 and PNUTS (PMID: 28825698). This antibody recognizes hnRNP E1/E2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Kaiming Peng	35287546	Bioengineered	IHC
Lin Yue	35089637	Pathol Int	WB,IHC
Jiasi Wang	24413564	Nucleic Acids Res	IF

## 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:

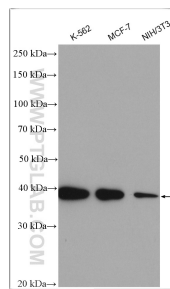
T: 4006900926

E: Proteintech-CN@ptglab.com

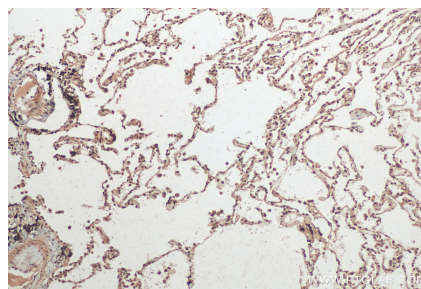
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

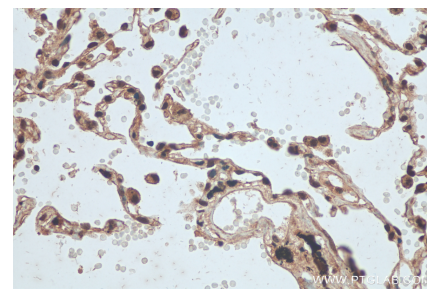
## Selected Validation Data



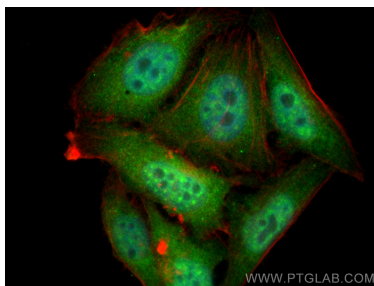
Various lysates were subjected to SDS PAGE followed by western blot with 14523-1-AP (hnRNP-E1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



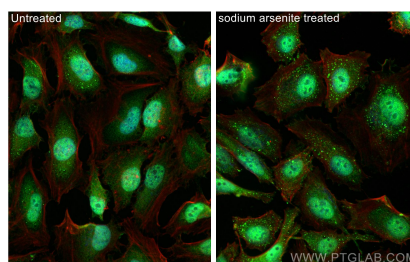
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 14523-1-AP (hnRNP-E1 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 14523-1-AP (hnRNP-E1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using hnRNP-E1 antibody (14523-1-AP) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using hnRNP-E1 antibody (14523-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).