

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:

150ul, Concentration: 550 ug/ml by Nanodrop;

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

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, 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

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 (PCBP1-4a 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 PNUITS (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

*** 20ul sizes contain 0.1% BSA

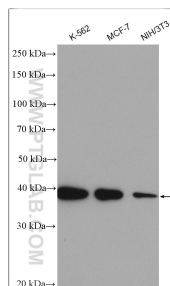
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

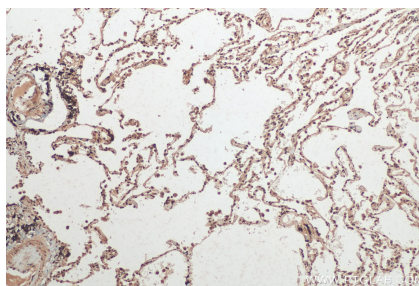
E: proteintech@ptglab.com
W: ptglab.com

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

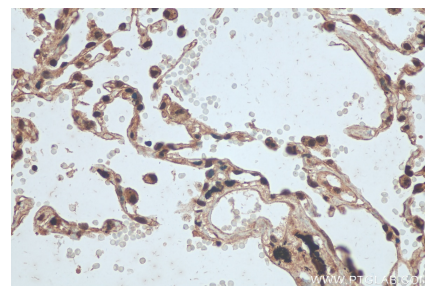
Selected Validation Data



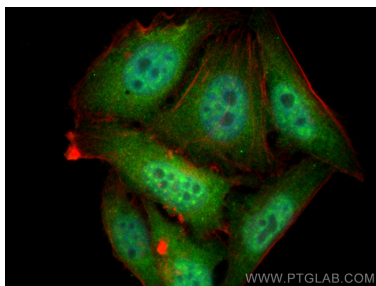
Various lysates were subjected to SDS PAGE followed by western blot with 14523-1-AP (hnRNP-E1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



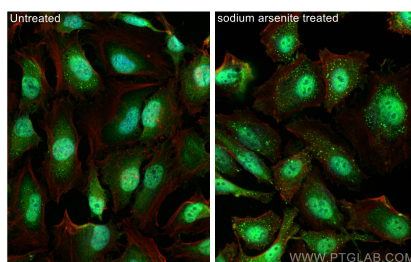
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 14523-1-AP (hnRNP-E1 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).