

For Research Use Only

# ELAC2 Polyclonal antibody

Catalog Number:10071-1-AP

Featured Product

12 Publications



## Basic Information

<b>Catalog Number:</b> 10071-1-AP	<b>GenBank Accession Number:</b> BC004158	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 280 ug/ml by Nanodrop and 167 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 60528	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9BQ52	
<b>Isotype:</b> IgG	<b>Full Name:</b> elaC homolog 2 (E. coli)	
<b>Immunogen Catalog Number:</b> AG0105	<b>Calculated MW:</b> 92 kDa	
	<b>Observed MW:</b> 92 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : DU 145 cells, HeLa cells, HepG2 cells IHC : mouse testis tissue,
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rabbit	

**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

Putative prostate cancer susceptibility protein (ELAC2) is encoded by HPC2/ELAC2 gene. HPC2 is a potential prostate cancer predisposition gene playing a role in genetic susceptibility to prostate cancer. It is a zinc phosphodiesterase, which displays some tRNA 3'-processing endonuclease activity and probably involved in tRNA maturation, by removing a 3'-trailer from precursor tRNA. Defects in ELAC2 may be a cause of susceptibility to prostate cancer (PC).

## Notable Publications

Author	Pubmed ID	Journal	Application
Mineri Rossana R	19492094	PLoS One	WB
Zbigniew Pietras	29967381	Nat Commun	WB
Brzezniak Lien K LK	21593607	RNA Biol	WB,IF

## Storage

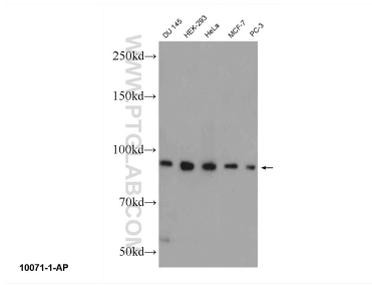
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

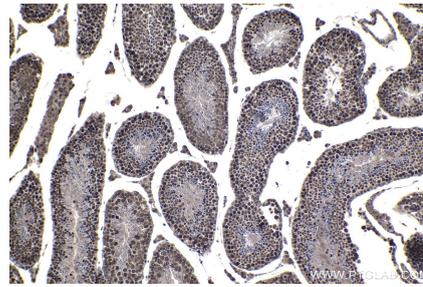
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



DU 145 cells were subjected to SDS PAGE followed by western blot with 10071-1-AP (ELAC2 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 10071-1-AP (ELAC2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).