

For Research Use Only

# PROSC Polyclonal antibody

Catalog Number: 25154-1-AP

2 Publications



## Basic Information

### Catalog Number:

25154-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18369

### GenBank Accession Number:

BC012334

### GeneID (NCBI):

11212

### UNIPROT ID:

O94903

### Full Name:

proline synthetase co-transcribed homolog (bacterial)

### Calculated MW:

275 aa, 30 kDa

### Observed MW:

30 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:100-1:400

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB

### Species Specificity:

human

### Cited Species:

human, mouse

**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 : HepG2 cells, L02 cells

IHC : human skeletal muscle tissue,

IF/ICC : U2OS cells,

## Background Information

Human Pyridoxal 5'-phosphate-binding protein (PLPBP; previously proline synthase cotranscribed homolog, PROSC) was first described in 1999 and was demonstrated to be ubiquitously expressed in many tissues. PROSC is ubiquitously expressed in human tissues and is highly conserved throughout evolution. PROSC deficiency could therefore markedly increase free cellular PLP levels (PMID: 31825581, 27912044).

## Notable Publications

Author	Pubmed ID	Journal	Application
Devon L Johnstone	30668673	Brain	WB
Jana Key	38139332	Int J Mol Sci	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

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

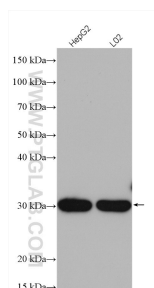
For technical support and original validation data for this product please contact:

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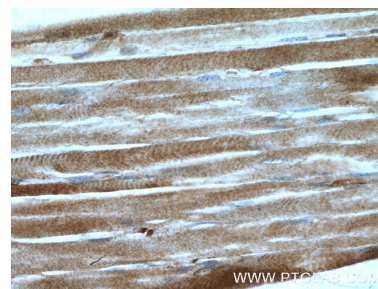
## Selected Validation Data



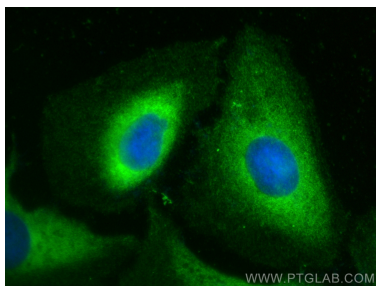
Various lysates were subjected to SDS PAGE followed by western blot with 25154-1-AP (PROSC antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 25154-1-AP (PROSC Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 25154-1-AP (PROSC Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using PROSC antibody (25154-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).