

For Research Use Only

# PROSC Polyclonal antibody

Catalog Number: 25154-1-AP **2 Publications**



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>25154-1-AP        | <b>GenBank Accession Number:</b><br>BC012334                               | <b>Purification Method:</b><br>Antigen affinity purification                          |
| <b>Size:</b><br>1000 µg/ml                  | <b>GeneID (NCBI):</b><br>11212   | <b>Recommended Dilutions:</b><br>WB 1:1000-1:6000<br>IHC 1:100-1:400<br>IF 1:20-1:200 |
| <b>Source:</b><br>Rabbit                    | <b>UNIPROT ID:</b><br>O94903   |   |
| <b>Isotype:</b><br>IgG                      | <b>Full Name:</b><br>proline synthetase co-transcribed homolog (bacterial) |   |
| <b>Immunogen Catalog Number:</b><br>AG18369 | <b>Calculated MW:</b><br>275 aa, 30 kDa                                    |   |
|   | <b>Observed MW:</b><br>30 kDa  |   |

## Applications

|   |  |
|---|--|
| <b>Tested Applications:</b><br>IF/ICC, IHC, WB, ELISA | <b>Positive Controls:</b><br>WB : HepG2 cells, L02 cells |
| <b>Cited Applications:</b><br>WB                      | <b>IHC :</b> human skeletal muscle tissue,               |
| <b>Species Specificity:</b><br>human                  | <b>IF :</b> L02 cells,                                   |
| <b>Cited Species:</b><br>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**

## 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 pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

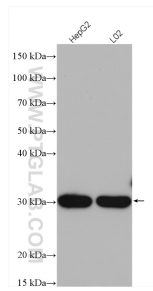
T: 4006900926

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.**

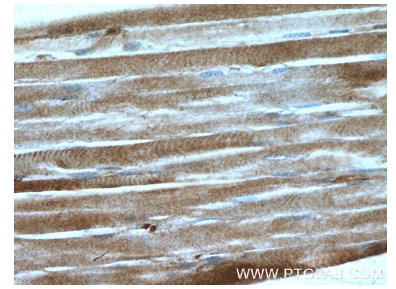
## Selected Validation Data



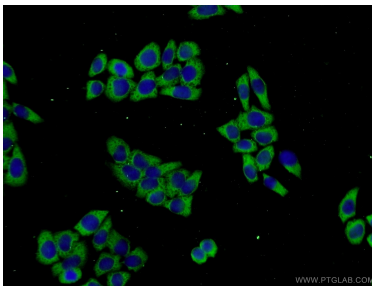
Various lysates were subjected to SDS PAGE followed by western blot with 25154-1-AP (PROSC antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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 L02 cells using 25154-1-AP (PROSC antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).