

For Research Use Only

# PELP1 Monoclonal antibody

Catalog Number: 67050-1-Ig **1 Publications**



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>67050-1-Ig        | <b>GenBank Accession Number:</b><br>BC069058                       | <b>Purification Method:</b><br>Protein A purification                                   |
| <b>Size:</b><br>1000 µg/ml                  | <b>GeneID (NCBI):</b><br>27043                                     | <b>CloneNo.:</b><br>1B11E4  |
| <b>Source:</b><br>Mouse                     | <b>UNIPROT ID:</b><br>Q8IZL8                                       | <b>Recommended Dilutions:</b><br>WB 1:2000-1:8000<br>IHC 1:500-1:2000<br>IF 1:200-1:800 |
| <b>Isotype:</b><br>IgG2b                    | <b>Full Name:</b><br>proline, glutamate and leucine rich protein 1 |   |
| <b>Immunogen Catalog Number:</b><br>AG25729 | <b>Calculated MW:</b><br>1130 aa, 120 kDa                          |   |
|   | <b>Observed MW:</b><br>160 kDa                                     |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>FC (Intra), IF-P, IHC, WB, ELISA  | <b>Positive Controls:</b><br>WB : HeLa cells, T-47D cells, Jurkat cells, HEK-293 cells, MCF-7 cells<br>IHC : human cervical cancer tissue, human breast cancer tissue<br>IF : human breast cancer tissue, |
| <b>Cited Applications:</b><br>WB, IHC  |   |
| <b>Species Specificity:</b><br>Human   |   |
| <b>Cited Species:</b><br>mouse   |   |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |   |

## Background Information

PELP1 was first identified as a 160 kDa protein in a screen for Src homology 2 (SH2) domain-binding proteins. PELP1 is overexpressed in 60-80% of breast tumors and plays important roles in both ER genomic and non-genomic signaling. In vivo, PELP1 subcellular localization is primarily nuclear in normal breast tissue, but it is localized to the cytoplasm in about 40% of invasive breast tumors. In the nucleus, PELP1 interacts with a number of transcription factors. The proto-oncogenic functions of PELP1 involve different cellular processes including epigenetic modifications leading to ER transactivation and breast cancer progression. Furthermore, PELP1 activates kinase cascades in the cytoplasm such as MAPK activation via c-Src and PI3K signaling.

## Notable Publications

| Author       | Pubmed ID | Journal             | Application |
|--------------|-----------|---------------------|-------------|
| Kai-Xiang He | 37290329  | Int Immunopharmacol | WB,IHC      |

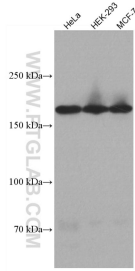
## Storage

**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

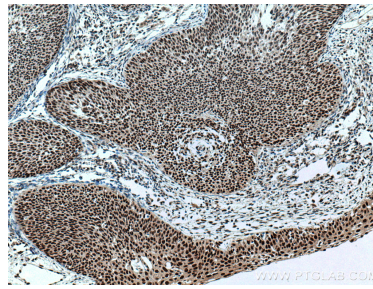
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

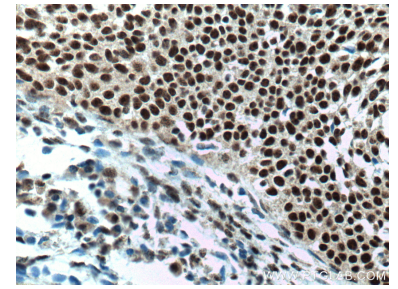
## Selected Validation Data



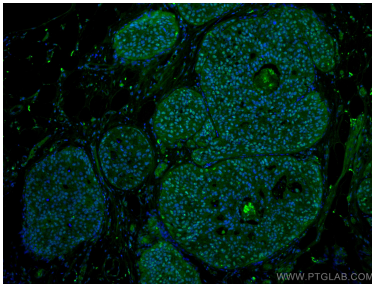
Various lysates were subjected to SDS PAGE followed by western blot with 67050-1-Ig (PELP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



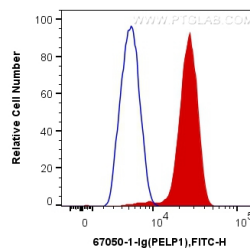
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 67050-1-Ig (PELP1 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



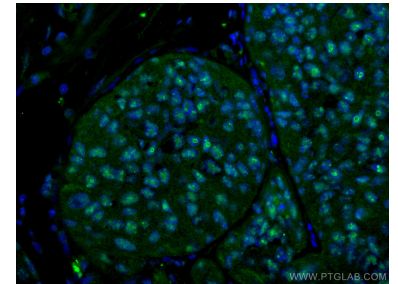
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 67050-1-Ig (PELP1 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using PELP1 antibody (67050-1-Ig, Clone: 1B11E4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.4 ug Anti-Human PELP1 (67050-1-Ig, Clone:1B11E4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (66360-3-Ig, Clone: K11B8C4B5) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using PELP1 antibody (67050-1-Ig, Clone: 1B11E4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).