

For Research Use Only

# SLC40A1/FPN1 Polyclonal antibody

Catalog Number: 26601-1-AP

55 Publications



## Basic Information

|   |  |  |
|---|--|--|
| <b>Catalog Number:</b><br>26601-1-AP                          | <b>GenBank Accession Number:</b><br>BC037733   | <b>Purification Method:</b><br>Antigen affinity purification       |
| <b>Size:</b><br>150ul , Concentration: 700 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>30061   | <b>Recommended Dilutions:</b><br>WB 1:500-1:2000<br>IHC 1:50-1:500 |
| <b>Source:</b><br>Rabbit                                      | <b>UNIPROT ID:</b><br>Q9NP59   |  |
| <b>Isotype:</b><br>IgG  | <b>Full Name:</b><br>solute carrier family 40 (iron-regulated transporter), member 1 |  |
| <b>Immunogen Catalog Number:</b><br>AG24273                   | <b>Calculated MW:</b><br>62 kDa  |  |
|   | <b>Observed MW:</b><br>62-70 kDa   |  |

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IF, IHC

### Species Specificity:

human, rat, mouse

### Cited Species:

human, chicken, rat, mouse, 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:** Caco-2 cells, mouse spleen tissue, HepG2 cells, mouse liver tissue, rat spleen, HEK-293T cells, SW480 cells

**IHC:** human liver tissue, mouse spleen tissue

## Background Information

SLC40A1, also named as Ferroportin 1 (FPN1), is an iron transporter which is involved in iron export from duodenal epithelial cell and also in transfer of iron between maternal and fetal circulation. It has been reported that SLC40A1 mutations may lead to macrophage iron overload, hyperferritinemia, and normal transferrin saturation among ferroportin iron overload patients. This antibody detects 62-70 kDa protein as well as the fragments of 56 kDa and 35 kDa protein similar to papers in SDS-PAGE. (PMID: 21396368,16054062, 18974313)

## Notable Publications

| Author    | Pubmed ID | Journal             | Application |
|-----------|-----------|---------------------|-------------|
| Ping Han  | 36309297  | Free Radic Biol Med | WB          |
| Ling Zeng | 34610361  | Free Radic Biol Med | WB          |
| Dian Jiao | 36437694  | Anat Rec (Hoboken)  | 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

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

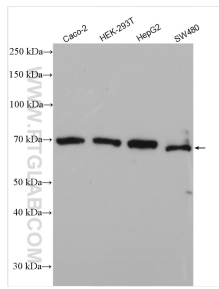
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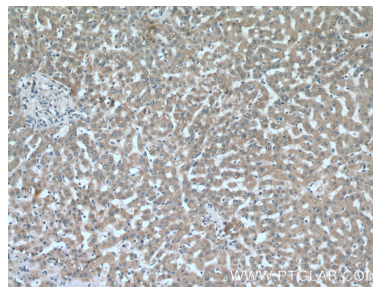
E: proteintech@ptglab.com  
W: ptglab.com

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

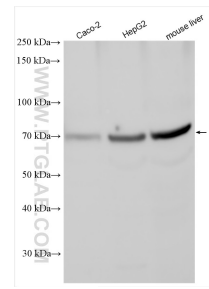
## Selected Validation Data



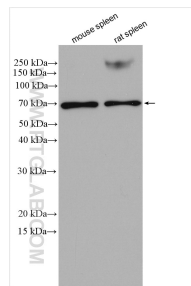
Various lysates were subjected to SDS PAGE followed by western blot with 26601-1-AP (SLC40A1/FPN1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 26601-1-AP (SLC40A1 Antibody) at dilution of 1:200 (under 10x lens).



Various lysates were subjected to SDS PAGE followed by western blot with 26601-1-AP (SLC40A1/FPN1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 26601-1-AP (SLC40A1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.