

For Research Use Only

# Transferrin/TF Polyclonal antibody

Catalog Number:17435-1-AP

Featured Product

76 Publications



## Basic Information

<b>Catalog Number:</b> 17435-1-AP	<b>GenBank Accession Number:</b> BC059367	<b>Purification Method:</b> Antigen affinity purification
<b>Concentration:</b> 500 ug/ml	<b>GeneID (NCBI):</b> 7018	<b>Recommended Dilutions:</b> WB 1:1000-1:5000 IHC 1:50-1:500 IF-P 1:200-1:800 IF/ICC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P02787	
<b>Isotype:</b> IgG	<b>Full Name:</b> transferrin	
<b>Immunogen Catalog Number:</b> AG11504	<b>Calculated MW:</b> 698 aa, 77 kDa <b>Observed MW:</b> 77 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, IF-P, ELISA

**Cited Applications:**  
WB, IHC, IF, IP

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse, rat, monkey, bovine, duck

**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:** human urine sample, mouse kidney tissue, mouse spleen tissue, rat kidney tissue

**IHC:** human hepatocirrhosis tissue, human placenta tissue, human testis tissue

**IF-P:** human placenta tissue,

**IF/ICC:** HepG2 cells,

## Background Information

Serotransferrin(TF) is a 77 kDa secreted protein which is also named as transferrin, siderophilin, beta-1 metal-binding globulin and belongs to a family of homologous iron-binding glycoproteins that encompasses lactoferrin (found both intracellular and in secretions, including milk), melanotransferrin (present on melanoma cells) and ovotransferrin (present in egg white). TF is a multi-function protein with a primary role in transporting iron in a safe, redox-inactive state from absorption to utilization or storage sites around the body. The association of Tf with the immune system derives from its ability to restrict serum free-iron levels, creating low-iron environments where the infection capacity of pathogenic microorganisms is limited. TF is expressed predominantly in the liver and secreted in plasma, but lower amounts can be synthesized in other tissues such as the brain and the testis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Fen Liu	36129988	Sci Adv	WB
Zhongyang Lv	36137413	EBioMedicine	WB
Tong-Chun Xue	25242412	Oncol Rep	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

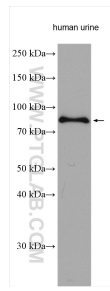
T: 4006900926

E: Proteintech-CN@ptglab.com

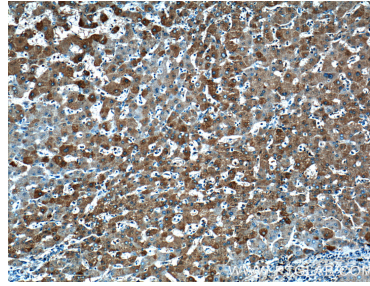
W: ptgcn.com

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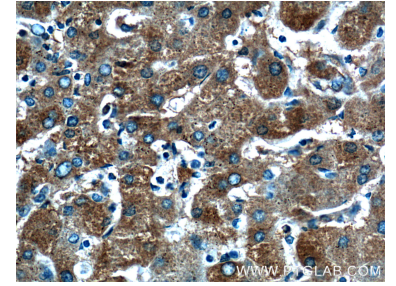
## Selected Validation Data



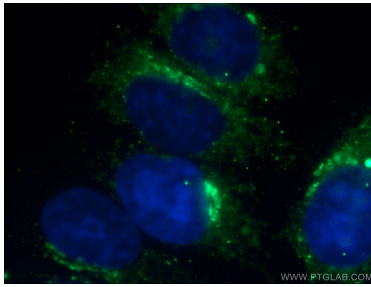
human urine lysates were subjected to SDS PAGE followed by western blot with 17435-1-AP (Transferrin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



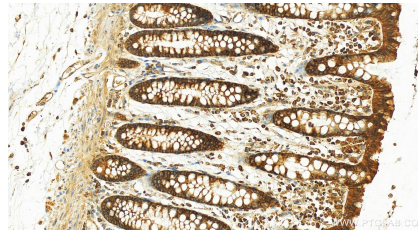
Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 17435-1-AP (Transferrin antibody at dilution of 1:200 (under 10x lens).



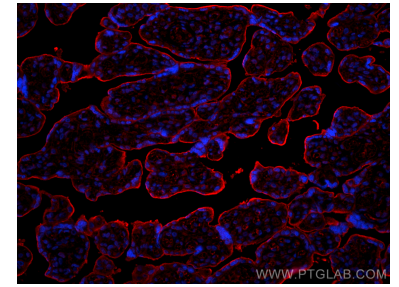
Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 17435-1-AP (Transferrin antibody at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 17435-1-AP (Transferrin antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 17435-1-AP (Transferrin antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using Transferrin/TF antibody (17435-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).