

For Research Use Only

# HEPACAM Polyclonal antibody

Catalog Number: 18177-1-AP **21 Publications**



## Basic Information

<b>Catalog Number:</b> 18177-1-AP	<b>GenBank Accession Number:</b> BC104831	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 350 µg/ml by Nanodrop and 280 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 220296	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> hepatocyte cell adhesion molecule	<b>IHC 1:20-1:200</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 416 aa, 46 kDa	<b>IF 1:10-1:100</b>
<b>Immunogen Catalog Number:</b> AG12870	<b>Observed MW:</b> 46-72 kDa	

## Applications

### Tested Applications:

IF, IHC, IP, WB, ELISA

### Cited Applications:

IF, IHC, IP, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, 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 : mouse brain tissue, HepG2 cells, MCF-7 cells, mouse liver tissue, rat brain tissue, SH-SY5Y cells

IP : rat brain tissue,

IHC : human liver tissue,

IF : MCF-7 cells,

## Background Information

HepaCAM (hepatocyte cell adhesion molecule), also known as GlialCAM, is a single-pass type I membrane glycoprotein of 416 amino acids. It displays a typical structure of immunoglobulin (Ig)-like adhesion molecules including two extracellular Ig-like domains, a transmembrane segment, and a cytoplasmic tail. It has been shown that hepaCAM forms a cis-homodimer on the cell surface, and modulates cell-matrix interaction. It is predominantly expressed in the CNS glial cells. Defects in HEPACAM gene are the cause of megalencephalic leukoencephalopathy with subcortical cysts type 2A (MLC2A). HEPACAM has also been suggested as a tumor suppressor gene.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ting Li	33024272	Br J Cancer	IHC
Jia Tao	24324362	Int J Med Sci	WB, IF
Long Zhang	23652371	Mol. Med 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

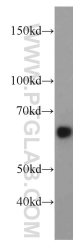
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

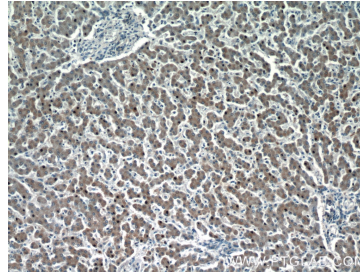
E: proteintech@ptglab.com  
W: ptglab.com

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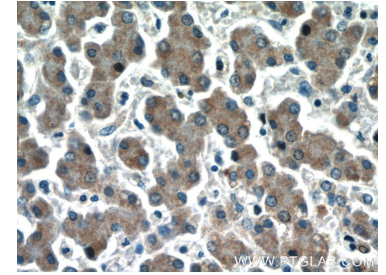
## Selected Validation Data



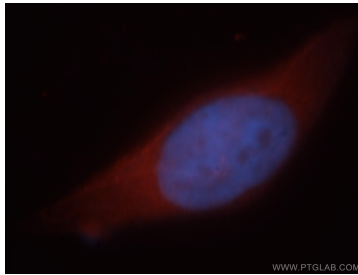
mouse brain tissue were subjected to SDS PAGE followed by western blot with 18177-1-AP (HEPACAM antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



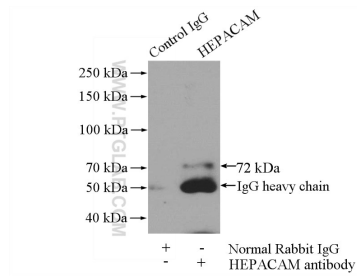
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 18177-1-AP (HEPACAM Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 18177-1-AP (HEPACAM Antibody) at dilution of 1:50 (under 40x lens).



mmunofluorescent analysis of MCF-7 cells, using HEPACAM antibody 18177-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).Blue pseudocolor = DAPI (fluorescent DNA dye).



IP Result of anti-HEPACAM (IP:18177-1-AP, 4ug; Detection:18177-1-AP 1:500) with rat brain tissue lysate 4000ug.