

For Research Use Only

# KIM-1/HAVCR1 Polyclonal antibody

Catalog Number: 30948-1-AP

10 Publications



## Basic Information

### Catalog Number:

30948-1-AP

### Concentration:

750 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_173149.2

### GeneID (NCBI):

286934

### UNIPROT ID:

O54947

### Full Name:

hepatitis A virus cellular receptor 1

### Calculated MW:

34 kDa

### Observed MW:

72 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:200-1:800

IF-P: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

mouse, rat

### Cited Species:

mouse, rat

### Positive Controls:

WB : mouse kidney tissue,

IHC : rat kidney tissue, mouse kidney tissue

IF-P : mouse kidney tissue,

**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

Kidney injury molecule 1 (KIM-1), also known as Hepatitis A virus cellular receptor 1 (HAVCR1), CD365, or T-cell immunoglobulin and mucin domain 1 (TIM-1), is a class I integral membrane glycoprotein, with an ectodomain containing Ig-like domain and a mucin domain. KIM-1 acts as a membrane receptor for hepatitis A virus (HAV) (PMID: 9658108; 8861957). KIM-1 provides a costimulatory signal for T cell activation and inhibits the development of peripheral tolerance (PMID: 16284246; 15793575). KIM-1 may be involved in the regulation of asthma and allergic diseases (PMID: 14534576). It has been reported that KIM-1 is shed into urine after acute kidney damage and is a marker of renal tubular injury (PMID: 14600030).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhan Wang	40088607	Ecotoxicol Environ Saf	WB
Xiandeng Li	40086061	Int Immunopharmacol	WB,IHC
Mengqiu Lu	39891958	Redox Biol	IHC

## 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:

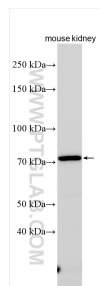
T: 4006900926

E: Proteintech-CN@ptglab.com

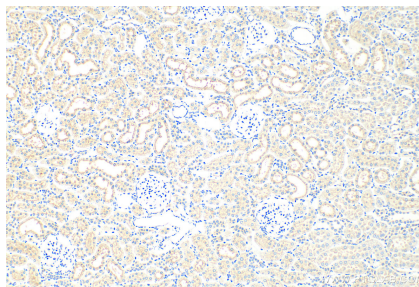
W: ptgcn.com

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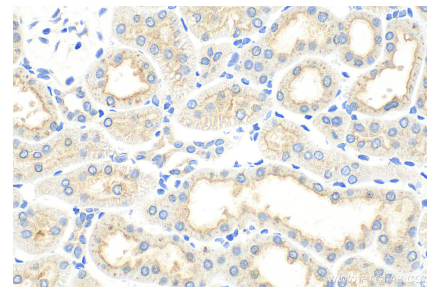
## Selected Validation Data



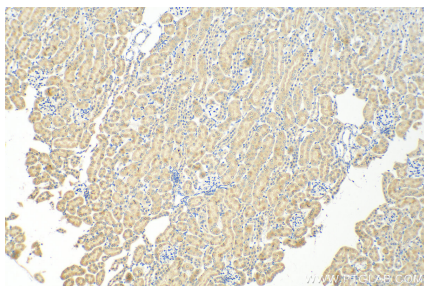
Mouse kidney tissue was subjected to SDS PAGE followed by western blot with 30948-1-AP (KIM-1/HAVCR1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



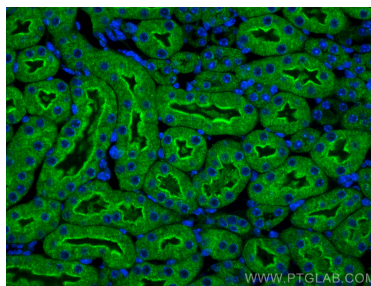
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 30948-1-AP (KIM-1/HAVCR1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



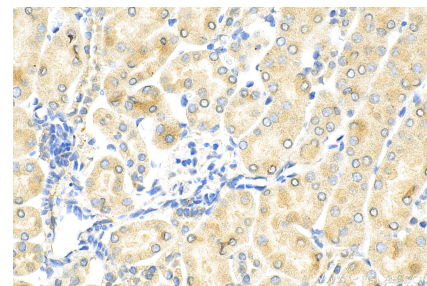
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 30948-1-AP (KIM-1/HAVCR1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 30948-1-AP (KIM-1/HAVCR1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using KIM-1/HAVCR1 antibody (30948-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 30948-1-AP (KIM-1/HAVCR1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).