For Research Use Only

KIM-1/HAVCR1 Polyclonal antibody

Catalog Number:30948-1-AP 10 Publications

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Basic Information

Catalog Number:
30948-1-AP

Size:
150ul , Concentration: 750 ug/ml by Nanodrop;

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

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 kidney tissue,

IHC : rat kidney tissue, mouse kidney tissue

IF-P : mouse kidney tissue,

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

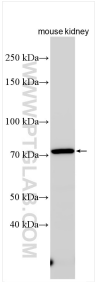
Storage

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

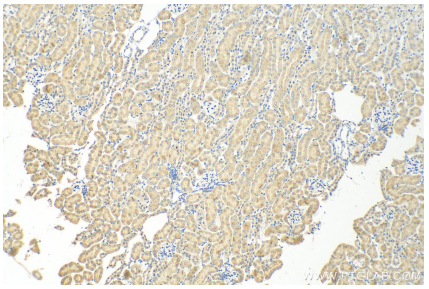
*** 20ul sizes contain 0.1% BSA

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

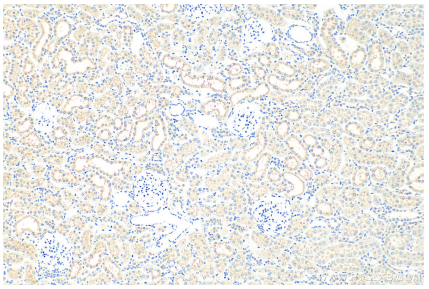
Selected Validation Data



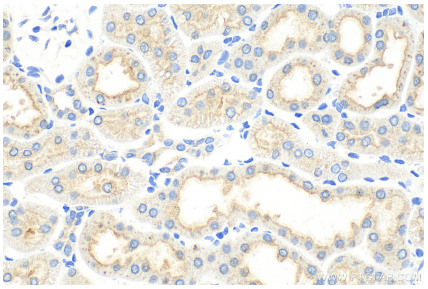
Mouse kidney tissue was subjected to SDS PAGE followed by western blot with 30948-1-AP (KIM-1/HAVCR1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



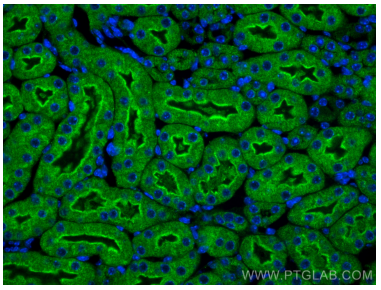
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 30948-1-AP (KIM-1/HAVCR1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



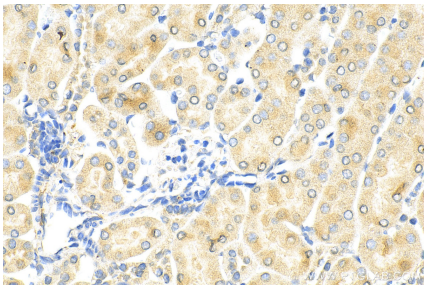
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 30948-1-AP (KIM-1/HAVCR1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).