For Research Use Only

KIM-1/HAVCR1 Recombinant antibody

Catalog Number:83221-2-RR

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Basic Information

Catalog Number:
83221-2-RR

Size:
1000 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:
Protein A purification

CloneNo.:
230528C5

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
mouse, rat

Positive Controls:

WB : 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).

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

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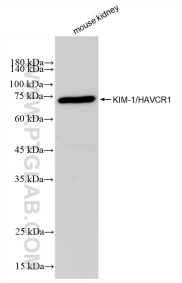
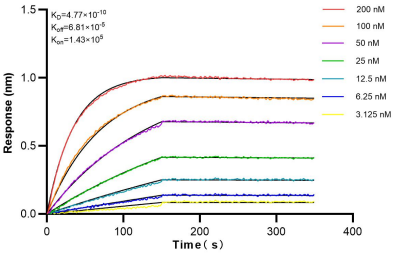
Selected Validation Data



Mouse kidney tissue was subjected to SDS PAGE followed by western blot with 83221-2-RR (HAVCR1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83221-2-RR against Rat HAVCR1 were performed. The affinity constant is 0.477 nM.