For Research Use Only

Rat KIM-1/HAVCR1 Recombinant antibody, PBS Only (Capture) Catalog Number:83221-2-PBS

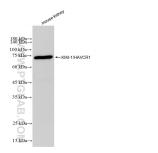


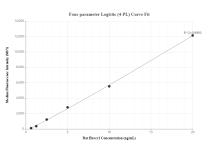
Basic Information	Catalog Number: 83221-2-PBS	GenBank Accession Number: NM_173149.2	Purification Method: Protein A purification
	Size:	GenelD (NCBI):	CloneNo.:
	100ug , Concentration: 1 mg/ml by Nanodrop; Source:	286934	230528C5
		UNIPROT ID:	
		054947	
	Rabbit	Full Name:	
	Isotype: IgG	hepatitis A virus cellular receptor 1 Calculated MW:	
		Observed MW:	
		72 kDa	
		Applications	Tested Applications:
Аррисацонз	WB, Cytometric bead array, Indirect ELISA		
	Species Specificity: mouse, rat		
Product Information	83221-2-PBS targets KIM-1/HAVCR1 as part of a matched antibody pair:		
	MP00213-2: 83221-2-PBS capture and 83221-4-PBS detection (validated in Cytometric bead array)		
	Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.		
	This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.		
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 -80°C. Storage Buffer: PBS Only		

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

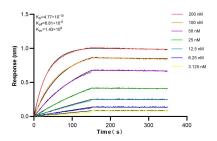
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





Cytometric bead array standard curve of MP00213-2, Rat KIM-1/HAVCR1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83221-2-PBS. Detection antibody: 83221-4-PBS. Standard: Eg0597. Range: 0.625-20 ng/mL



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

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. This data was developed using the same antibody clone with 83221-2-PBS in a different storage buffer formulation.