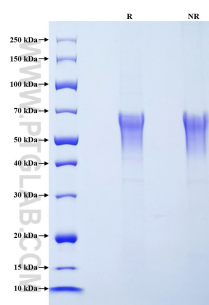


Recombinant Rat KIM-1/HAVCR1 protein (His Tag)

Catalog Number: Eg0597

Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Rat KIM-1 protein Ser18-Val238 (Accession# O54947) with a His tag at the C-terminus.</p> <p>GeneID: 286934</p> <p>Accession: O54947</p> <p>Predicted Molecular Mass: 25.7 kDa</p> <p>SDS-PAGE: 50-70 kDa, reducing (R) conditions</p> <p>Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>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). KIM-1 provides a costimulatory signal for T cell activation and inhibits the development of peripheral tolerance. KIM-1 may be involved in the regulation of asthma and allergic diseases. It has been reported that KIM-1 is shed into urine after acute kidney damage and is a marker of renal tubular injury.</p>		
References	<ol style="list-style-type: none">1. G Kaplan, et al. (1996) Comparative Study EMBO J. 15(16):4282-96.2. D Feigelstock, et al. (1998) J Virol. 72(8):6621-8.3. Jennifer J McIntire, et al. (2003) Nature. 425(6958):576.4. Takaharu Ichimura, et al. (2003) Am J Physiol Renal Physiol. 286(3):F552-63.5. Anjali J de Souza, et al. (2005) Proc Natl Acad Sci U S A. 102(47):17113-8.6. Sarah E Umetsu, et al. (2005) Nat Immunol. 6(5):447-54.		
Synonyms	HAVCR1, KIM-1, TIM-1, CD365, KIM 1		

Selected Validation Data



Purity of Recombinant Rat KIM-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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

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