

Canine KIM-1 / TIM1 / HAVCR1 Protein (Fc Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 70001-D04H

General Information

Gene Name Synonym:

HAVCR1

Protein Construction:

A DNA sequence encoding the extracellular domain of canine HAVCR1 (XP_854888.1) (Tyr21-Ser160) was fused with the Fc region of mouse IgG at the N-terminus.

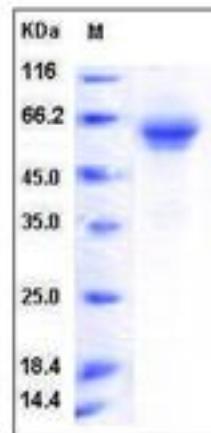
Source: Canine

Expression Host: HEK293 Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE.

SDS-PAGE:



Protein Description

HAV cellular receptor 1 (HAVCR1), also known as Kidney injury molecule 1 (KIM-1) and T cell immunoglobulinmucin 1 (TIM-1), is a type I integral membrane glycoprotein. KIM-1 protein is widely expressed with highest levels in kidney and testis. It has been shown to play a major role as a human susceptibility gene for asthma, allergy and autoimmunity. IgA1lambda is a specific ligand of KIM-1 protein and that their association has a synergistic effect in virus-receptor interactions. KIM-1 involves in the pathogenesis of acute kidney injury. It had been confirmed that KIM-1 is a human urinary renal dysfunction biomarker. Moreover, KIM-1 protein is a novel regulatory molecule of flow-induced calcium signaling.

References

- 1.Tami C, et al. (2007) Immunoglobulin A (IgA) is a natural ligand of hepatitis A virus cellular receptor 1 (HAVCR1), and the association of IgA with HAVCR1 enhances virus-receptor interactions. *J Virol.* 81(7): 3437-46.
- 2.Rees AJ, et al. (2008) Kim-1/Tim-1: from biomarker to therapeutic target? *Nephrol Dial Transplant.* 23(11): 3394-6.
- 3.Chaturvedi S, et al. (2009) Assay validation for KIM-1: human urinary renal dysfunction biomarker. *Int J Biol Sci.* 5(2): 128-34.

Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

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