

Human CellExp™ TIM3/KIM3/HAVCR2, Human recombinant

CATALOG #: 7495-10 10 µg
7495-50 50 µg

ALTERNATE NAMES: HAVCR2, TIM3, TIMD3, FLJ14428, KIM3

SOURCE: HEK 293 cells (Ser 22 – Glu 142)

PURITY: ≥ 97% by SDS-PAGE gel

MOL. WEIGHT: This protein is fused with the Fc region of human IgG1 at the C-terminus and has a calculated MW of 42 kDa after removal of signal peptide. In DTT-reduced SDS-PAGE, rhKIM3-Fc protein migrates as 45 kDa poly peptide due to glycosylation.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM glycine, pH 7.0. Normally Mannitol or Trehalose is added as protectants before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in 50 mM Tris, 100 mM glycine, pH 7.0. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: Hepatitis A virus cellular receptor 2 also known as HAVCR2, FLJ14428, KIM3, TIM3, TIMD3, is a member of the TIM family of immune regulating molecules with one Ig-like V-type domain and a Ser/Thr-rich mucin stalk. CD4-positive T helper lymphocytes can be divided into types 1 (Th1) and 2 (Th2) on the basis of their cytokine secretion patterns. Th1 cells and their associated cytokines are involved in cell-mediated immunity to intracellular pathogens and delayed-type hypersensitivity reactions, whereas Th2 cells are involved in the control of extracellular helminthic infections and the promotion of atopic and allergic diseases. The 2 types of cells also cross-regulate the functions of the other. HAVCR2 is a Th1-specific cell surface protein that regulates

macrophage activation and enhances the severity of experimental autoimmune encephalomyelitis in mice. HAVCR2 regulates macrophage activation. Inhibits T-helper type 1 lymphocyte (Th1)-mediated auto- and alloimmune responses and promotes immunological tolerance. May be also involved in T-cell homing. Dysregulation of the HAVCR2-galectin-9 pathway could underlie chronic autoimmune disease states in human, such as multiple sclerosis.

BIOLOGICAL ACTIVITY: Immobilized Human TIM-3, Fc Tag at 2µg/mL (100 µL/well) can bind Anti-TIM3 Mab, Human IgG4 with a linear range of 0.15-10 µg/mL.

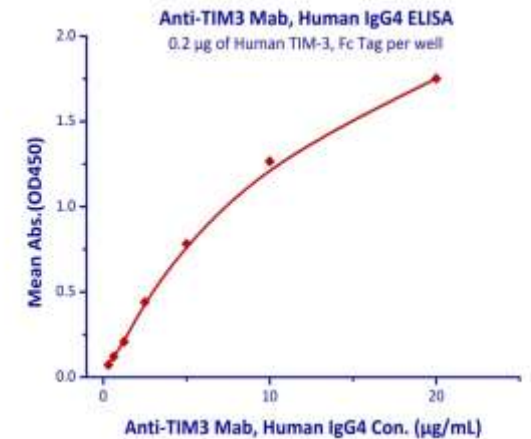
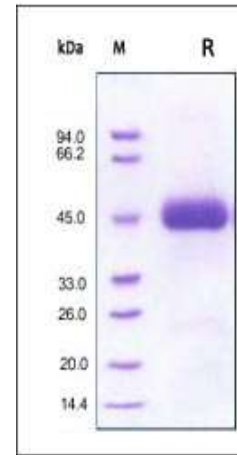


Fig. A. Human TIM-3 (22-142), Fc Tag on SDS-PAGE under reducing (R) condition.

Fig. B. Immobilized Human TIM-3, Fc Tag at 2 µg/mL (100 µL/well) can bind Anti-TIM3 Mab, Human IgG4 with a linear range of 0.15-10 µg/mL

RELATED PRODUCTS:

- Human CellExp™ Tim-1, Fc Tag, Human Recombinant (Cat. No. P1353)
- Human CellExp™ Tim-2, Fc Tag, Mouse Recombinant (Cat. No. P1355)
- Human CellExp™ Tim-3, Mouse Recombinant (Cat. No. P1359)
- Human CellExp™ Tim-3, (Fc-Tag Mouse), Mouse Recombinant (Cat. No. P1360)
- Human CellExp™ Tim-4, (Fc-Tag), Mouse Recombinant (Cat. No. P1362)

