Product datasheet for **CF812562**

**TIM 3 (HAVCR2) Mouse Monoclonal Antibody [Clone ID: OTI2B9]**

**Product data:**

- **Product Type:** Primary Antibodies
- **Clone Name:** OTI2B9
- **Applications:** FC, WB
- **Recommend Dilution:** WB 1:500, FLOW 1:100
- **Reactivity:** Human
- **Host:** Mouse
- **Isotype:** IgG1
- **Clonality:** Monoclonal
- **Immunogen:** Full length human recombinant protein of human HAVCR2 (NP_116171) produced in HEK293T cell.
- **Formulation:** Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
- **Reconstitution Method:** For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
- **Purification:** Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
- **Storage:** Store at -20°C as received.
- **Stability:** Stable for 12 months from date of receipt.
- **Predicted Protein Size:** 33.2 kDa
- **Gene Name:** Homo sapiens hepatitis A virus cellular receptor 2 (HAVCR2), mRNA.
- **Database Link:** NP_116171 Entrez Gene 84868 Human
Background: The protein encoded by this gene belongs to the immunoglobulin superfamily, and TIM family of proteins. 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 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. This protein is a Th1-specific cell surface protein that regulates macrophage activation, and inhibits Th1-mediated auto- and alloimmune responses, and promotes immunological tolerance. [provided by RefSeq, Sep 2011]

Synonyms: CD366; HAVcr-2; KIM-3; SPTCL; Tim-3; TIM3; TIMD-3; TIMD3

Protein Families: Druggable Genome, Transmembrane

Product images:

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY HAVCR2 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HAVCR. Positive lysates [LY403200] (100ug) and [LC403200] (20ug) can be purchased separately from OriGene.

Flow cytometric analysis of living 293T cells transfected with HAVCR2 overexpression plasmid (RC209440), Red/empty vector (PS100001), Blue) using anti-HAVCR2 antibody ([TA812562]). Cells incubated with a non-specific antibody (Green) were used as isotype control (1:100).
Flow cytometric analysis of living PBMCs treated with 10ug/ml PHA for 72h (Right)/untreated (Left) using anti-HAVCR2 antibody ([TA812562]) (1:100).

Flow cytometric analysis of living PBMCs treated with 10ug/ml PHA for 72h (Right) using anti-HAVCR2 antibody ([TA812562]). Cells incubated with a non-specific antibody (Left) were used as isotype control (1:100).