

Rabbit Anti-Human TIMD3 / HAVCR2 Monoclonal Antibody

Cat. No. CAB11553RH Lot. No. (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human TIMD3 / HAVCR2
Species	Human
Source	Rabbit
Antigen Description	Hepatitis A virus cellular receptor 2 (HAVCR2), formerly known as T cell immunoglobulin and mucin domain-3 (TIM-3), is a transmembrane glycoprotein expressed on the surface of terminally differentiated Th1 cells but not on Th2 cells. TIM-3 thus serves as the surface molecule that distinguishes between the two effector populations derived from naive CD4(+) T-helper cells. TIM-3 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. Th1 cells produce cytokines (IFN-gamma, interleukin-2, TNF-alpha and lymphotoxin) that are commonly associated with cell-mediated immune responses against intracellular pathogens, delayed-type hypersensitivity reactions, and induction of organ-specific autoimmune diseases. It has been identified that galectin-9 is the Tim-3 ligand, and the TIM-3-galectin-9 pathway may serve to inhibit Th1 cells during a normal immune response and may be crucial for the induction of peripheral tolerance. Dysregulation of the TIM-3-galectin-9 pathway could underlie chronic autoimmune disease states in human, such as multiple sclerosis.
Specificity	Human TIMD3 / HAVCR2. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA

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Immunogen	Recombinant human TIMD3 protein
Isotype	Rabbit IgG
Cross Reactivity	24
Clone	A25
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human TIMD3 in WB ELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human TIMD3. The detection limit for human TIMD3 is approximately 0.0049 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human TIMD3.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	HAVCR2 hepatitis A virus cellular receptor 2 [Homo sapiens]
Official Symbol	HAVCR2

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Synonyms	HAVCR2; hepatitis A virus cellular receptor 2; FLJ14428; Tim 3; TIM3; TIMD3; kidney injury molecule-3; T-cell membrane protein 3; T cell immunoglobulin mucin 3; T cell immunoglobulin mucin-3; T-cell immunoglobulin and mucin domain-containing protein 3; KIM-3; Tim-3; TIMD-3; HAVcr-2;
Gene ID	84868
mRNA Refseq	NM_032782
Protein Refseq	NP_116171
MIM	606652
UniProt ID	Q8TDQ0
Chromosome Location	5q34

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