

Recombinant Monkey HAVCR2 Protein, Fc-tagged, Alexa Fluor 488 conjugated

Cat. No. HAVCR2-213CAF488 **Lot. No.** (See product label)

SPECIFICATION

Product Overview A DNA sequence encoding the Monkey TIM3 (EHH54703.1) (Met1-Arg201) (Alexa Fluor 488 conjugated) was expressed with the Fc region of human IgG1 at the C-terminus.

Species Monkey

Source HEK293

ProteinLength Met1-Arg201 418

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 cellmediated immune responses against intracellular pathogens, delayedtype 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 cellsduring a normal immune response and may be crucial for the induction of peripheral tolerance. Dysregulation of the TIM-3-galectin-9 pathway could underlie

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	chronic autoimmune disease states in human, such as multiple sclerosis.
Form	Lyophilized
Molecular Mass	The recombinant cynomolgus TIM3 comprises 418 amino acids and has a calculated molecular mass of 46.4 kDa. The apparent molecular mass of the protein is approximately 60.5 and 35.8 kDa in SDS-PAGE.
Endotoxin	< 1.0 EU/ µg of the protein as determined by the LAL method.
Purity	(70.9+26.4) % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Stability	Samples are stable for up to 12 months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile PBS, pH7.4.
Conjugation	Alexa Fluor 488

GENE INFORMATION

Gene Name	HAVCR2hepatitis A virus cellular receptor 2 [Macaca fascicularis(crab-eating macaque)]
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Official Symbol	HAVCR2
Synonyms	HAVCR2; hepatitis A virus cellular receptor 2
Gene ID	102141722
mRNA Refseq	XM_005558381
Protein Refseq	XP_005558438

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