

Recombinant Monkey HAVCR2 Protein, Fc-tagged, Alexa Fluor 555 conjugated

Cat. No. HAVCR2-213CAF555 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the Monkey TIM3 (EHH54703.1) (Met1-Arg201) (Alexa Fluor 555 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



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 555 via amines
With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.

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 555

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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