

Active Recombinant Monkey CD226 Protein, Fc-tagged, Alexa Fluor 555 conjugated

Cat. No. CD226-248CAF555 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Alexa Fluor 555 conjugated recombinant Monkey CD226(Glu19-Asn247) fused Fc region of Human IgG1 was expressed in HEK293.

Species

Monkey

Source

HEK293

ProteinLength

19-247 a.a.

Description

DNAX accessory molecule-1 (DNAM-1), also known as CD226, is a 65 kDa type I transmembrane glycoprotein in the immunoglobulin superfamily. Mature Monkey DNAM-1 contains a 236 amino acid (aa) extracellular domain (ECD) with two Ig-like C2-set domains and a 61 aa cytoplasmic region that contains motifs for binding PDZ domains and band 4.1 family proteins. Within the ECD, Monkey DNAM-1 shares 93%, 53% and 50% aa sequence identity with human, mouse, and rat DNAM-1, respectively. DNAM-1 is expressed on multiple lymphoid, myeloid cells, and activated vascular endothelial cells and interacts with CD155/PVR and Nectin-2/CD112. It competes with CD96 and TIGIT for binding to these proteins. It associates in cis with Integrin beta 2/CD18 on activated, but not resting, NK, T, and mast cells. Ligation of DNAM-1 promotes the activation of NK cells, CD8+ T cells, and mast cells, Th17 polarization, dendritic cell maturation, megakaryocyte, and activated platelet adhesion to vascular endothelial cells, and monocyte extravasation; it also inhibits the formation of osteoclasts. Platelet-endothelium interactions mediated by DNAM-1 enable the

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	metastasis of tumor cells to the lung. Downregulation of DNAM-1 on tumor cells can interfere with anti-tumor cellular immunity.
Form	Lyophilized
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Cynomolgus Monkey DNAM-1/CD226 Fc Chimera is immobilized at 0.25 µg/mL (100 µL/well), the concentration of Recombinant Human CD155/PVR Fc Chimera that produces 50% of the optimal binding response is approximately 0.2-1 µg/mL.
Molecular Mass	Predicted Molecular Mass: 53 kDa SDS-PAGE: 74-87 kDa, reducing conditions
N-terminal Sequence Analysis	Glu 19
Endotoxin	< 0.1 EU/ µg of the protein by the LAL method.
Purity	> 95 % by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
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.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

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Concentration	1 mg/mL
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 1 mg/mL in PBS.
Conjugation	Alexa Fluor 555

GENE INFORMATION

Gene Name	CD226 CD226 molecule [<i>Macaca fascicularis</i>]
Official Symbol	CD226
Synonyms	CD226; CD226 molecule
Gene ID	102117316

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