Recombinant Mouse Cd276 Protein, His-tagged, Alexa Fluor 488 conjugated

Cat. No. Cd276-479MAF488 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 488 conjugated recombinant Mouse Cd276 (Val29-Phe244) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	Val29-Phe244
Description	B7 homolog 3 (B7-H3), a member of the immunoglobulin superfamily, is also known CD276, which contains two Ig-like C2-type (immunoglobulin-like) domains and two Ig-like V-type (immunoglobulin-like) domains. B7-H3 may participate in the regulation of T-cell-mediated immune response. B7-H3 also plays a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. Furthermore, B7-H3 is involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. It could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy.
Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 25.4 kDa. The protein migrates as 40-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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N-terminal Sequence Analysis	Val 29
Endotoxin	< 1.0 EU/ μg by the LAL method.
Purity	> 95 % 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
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 10% trehalose.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Alexa Fluor 488

GENE INFORMATION

Gene Name	Cd276

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Official Symbol	Cd276
Synonyms	CD276; CD276 antigen; B7-H3; B7 homolog 3; costimulatory molecule; B7h3; B7RP-2; AU016588; 6030411F23Rik
Gene ID	102657
mRNA Refseq	NM_133983
Protein Refseq	NP_598744
UniProt ID	Q8VE98

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