

# Recombinant Mouse Cd276 Protein, hFc-tagged, Alexa Fluor 647 conjugated

**Cat. No.** CD276-1287MAF647    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Alexa Fluor 647 conjugated recombinant Mouse CD276 (Val29-Phe244) protein was fused to human IgG1 Fc 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 50.1 kDa. The protein migrates as 60-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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<b>N-terminal Sequence Analysis</b>	Val 29
<b>Endotoxin</b>	< 1.0 EU/ µg by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
<b>Storage</b>	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.
<b>Storage Buffer</b>	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
<b>Reconstitution</b>	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.
<b>Conjugation</b>	Alexa Fluor 647

## GENE INFORMATION

**Gene Name** Cd276 CD276 antigen [ *Mus musculus* (house mouse) ]

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<b>Official Symbol</b>	<a href="#">Cd276</a>
<b>Synonyms</b>	CD276; CD276 antigen; B7-H3; B7 homolog 3; costimulatory molecule; B7h3; B7RP-2; AU016588; 6030411F23Rik
<b>Gene ID</b>	<a href="#">102657</a>
<b>mRNA Refseq</b>	<a href="#">NM_133983</a>
<b>Protein Refseq</b>	<a href="#">NP_598744</a>
<b>UniProt ID</b>	<a href="#">Q8VE98</a>

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