

# Recombinant Mouse Cd28 Protein, His-tagged, Alexa Fluor 555 conjugated

**Cat. No.** Cd28-4008MAF555    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Alexa Fluor 555 conjugated recombinant Mouse Cd28 (Asn20-Lys149) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	Asn20-Lys149
<b>Description</b>	T-cell-specific surface glycoprotein CD28 is also known as TP44, is a single-pass type I membrane protein which contains one Ig-like V-type (immunoglobulin-like) domain. is one of the molecules expressed on T cells that provide co-stimulatory signals, which are required for T cell activation. CD28 is the receptor for CD80 (B7.1) and CD86 (B7.2). When activated by Toll-like receptor ligands, the CD80 expression is upregulated in antigen presenting cells (APCs). The CD86 expression on antigen presenting cells is constitutive. CD28 is the only B7 receptor constitutively expressed on naive T cells.
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	The protein has a calculated MW of 16.9 kDa. The protein migrates as 30-35 kDa and 55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>N-terminal Sequence</b>	Asn 20

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<b>Analysis</b>	
<b>Endotoxin</b>	< 1.0 EU/ µg by the LAL method.
<b>Purity</b>	> 90 % as determined by SDS-PAGE
<b>Characteristic</b>	<p>Disulfide-linked homodimer</p> <p>Labeled with Alexa Fluor 555 via amines</p> <p>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.</p>
<b>Storage</b>	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p>
<b>Storage Buffer</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 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 555

## GENE INFORMATION

**Gene Name** Cd28

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<b>Official Symbol</b>	<a href="#">Cd28</a>
<b>Synonyms</b>	CD28; CD28 antigen; T-cell-specific surface glycoprotein CD28
<b>Gene ID</b>	<a href="#">12487</a>
<b>mRNA Refseq</b>	<a href="#">NM_007642</a>
<b>Protein Refseq</b>	<a href="#">NP_031668</a>
<b>UniProt ID</b>	<a href="#">P31041</a>

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