Recombinant Mouse Cd28 Protein, His-tagged, Alexa Fluor 488 conjugated

Cat. No. Cd28-4008MAF488 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 488 conjugated recombinant Mouse Cd28 (Asn20-Lys149) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	Asn20-Lys149
Description	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.
Form	Lyophilized
Molecular Mass	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.
N-terminal Sequence	Asn 20

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Analysis	
Endotoxin	< 1.0 EU/ μg by the LAL method.
Purity	> 90 % 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	Cd28
Official Symbol	Cd28

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Synonyms	CD28; CD28 antigen; T-cell-specific surface glycoprotein CD28
Gene ID	12487
mRNA Refseq	NM_007642
Protein Refseq	NP_031668
UniProt ID	P31041

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