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### CD28 Protein (CD28) (AA 18-153) (mFc Tag)

2 Images



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Quantity:	100 μg
Target:	CD28
Protein Characteristics:	AA 18-153
Origin:	Dog
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD28 protein is labelled with mFc Tag.

#### Product Details

Purpose:	Canine CD28 Protein	
Sequence:	Thr18-Pro153	
Characteristics:	Recombinant Canine CD28 Protein is expressed from HEK293 with mFc (IgG1) tag at the C-Terminus.It contains Thr18-Pro153.	
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC	
Sterility:	0.22 μm filtered	
Endotoxin Level:	Less than 1EU per µg by the LAL method.	

#### **Target Details**

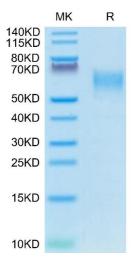
Target:	CD28
Alternative Name:	CD28 (CD28 Products)

#### Target Details

Background:	CD28 is the receptor for CD80 (B7-1) and CD86 (B7-2) proteins. 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.
Molecular Weight:	41.6 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
UniProt:	Q9GKP3
Pathways:	TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response
Application Details	
Restrictions:	For Research Use only

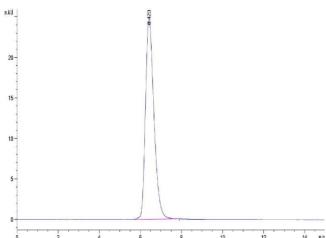
#### Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 $\mu$ m filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



#### **SDS-PAGE**

Image 1. Canine CD28 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



## Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Canine CD28 is greater than  $95\,\%$  as determined by SEC-HPLC.