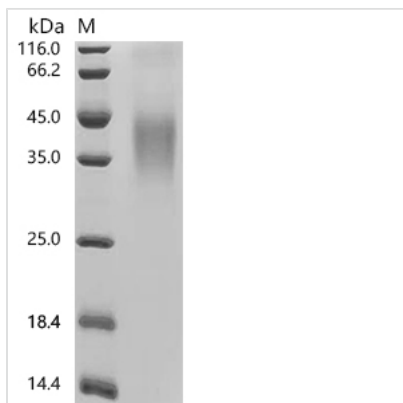


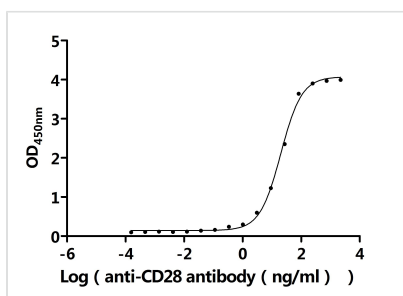


Recombinant Human T-cell-specific surface glycoprotein CD28 (CD28), partial (Active)

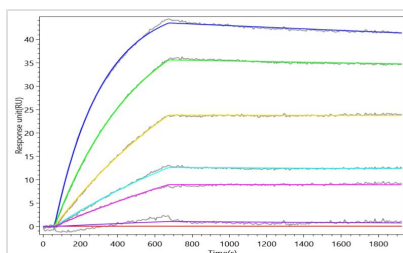
Product Code	CSB-MP004913HU1d7
Abbreviation	Recombinant Human CD28 protein, partial (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20?/-80?. The shelf life of lyophilized form is 12 months at -20?/-80?.
Uniprot No.	P10747
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	①Measured by its binding ability in a functional ELISA. Immobilized Human CD28 at 2 µg/mL can bind Anti-CD28 recombinant antibody (CSB-RA004913MA1HU). The EC50 is 18.19-22.28 ng/mL. ②CD28 Recombinant Monoclonal Antibody (CSB-RA004913MA1HU) captured on Protein A Chip can bind Human CD28 with an affinity constant of 1.13 nM as detected by MetaSPR Assay (WeSPR™ 200).
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	NKILVKQSPMLVAYDNAVNLSCKYSYNLFSREFRASLHKGLDSAVEVVCVYGN YSQQLQVYSKTGFNCDGKLGNESVTFYLQNLVYNQTDIYFCKIEVMYPPPYLD NEKSNGTIIHVKGKHLCPSPFLFPGPSKP
Source	Mammalian cell
Target Names	CD28
Expression Region	19-152aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	16.5 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity
Measured by its binding ability in a functional ELISA. Immobilized Human CD28 at 2 $\mu\text{g/ml}$ can bind Anti-CD28 recombinant antibody (CSB-RA004913MA1HU). The EC_{50} is 18.19-22.28 ng/mL.



Activity
CD28 Recombinant Monoclonal Antibody (CSB-RA004913MA1HU) captured on Protein A Chip can bind Human CD28 with an affinity constant of 1.13 nM as detected by MetaSPR Assay (WeSPRTM 200).

Endotoxin

Less than 1.0 EU/ μg as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at $-20^{\circ}\text{C}/-80^{\circ}\text{C}$. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at $-20^{\circ}\text{C}/-80^{\circ}\text{C}$. The shelf life of lyophilized form is 12 months at $-20^{\circ}\text{C}/-80^{\circ}\text{C}$.