

CD28/TP44 active protein

Recombinant Human/Cynomolgus CD28/TP44 (N-His)

CATALOG #
AAA177933

HOST
Human Cells

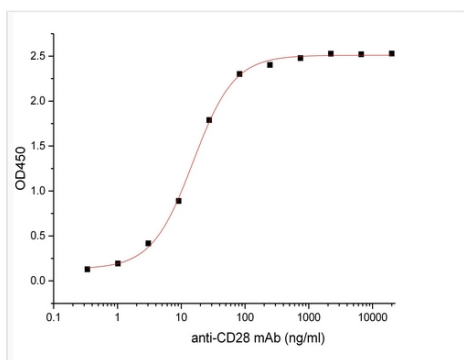
PRODUCT SYNONYMS

CD28/TP44; Recombinant Human/Cynomolgus CD28/TP44 (N-His); CD28; CD28 antigen; CD28 molecule; T-cell-specific surface glycoprotein CD28; Tp44; TP44; CD28/TP44 active protein

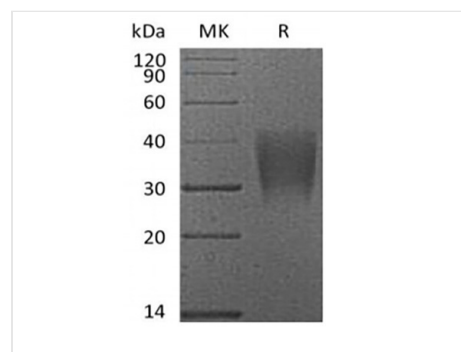
PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE
Form/Format	Lyophilized from a 0.2um filtered solution of 20mM Tris-HCl, 150mM NaCl, pH8.0.
Sequence	Asn19-Pro152
Species	Human, Cynomolgus
Tag	N-6His
Endotoxin	<1 IEU/ug as determined by LAL test.
Protein Construction	Recombinant Human T-cell-specific Surface Glycoprotein CD28 is produced by our Mammalian expression system and the target gene encoding Asn19-Pro152 is expressed with a 6His tag at the N-terminus.
Activity	Immobilized Human/Cynomolgus CD28-His at 2ug/ml (100ul/well) can bind Anti-CD28 mAb . The ED50 of Anti-CD28 mAb is 15.3ng/ml.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months. This product is provided as lyophilized powder which is shipped with ice packs.

IMAGES



Bioactivity



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CD28/TP44 active protein	T-cell-specific surface glycoprotein CD28(CD28) is a single-pass typeI membrane protein which contains one Ig-likeV-type (immunoglobulin-like) domain. It belongs to the immunoglobulin(Ig) superfamily. CD28 is one of the molecules expressed on T cells that provide co-stimulatory signals, which are required for T cell activation.CD28 co-stimulation is necessary for CD4 positive T-cell proliferation and survival, interleukin-2 production, and T-helper type-2 development. Human post-thymic regulatory T cells require CD28 co-stimulation to expand and maintain potent suppressive function in vivo. Apoptosis plays a key role in the age-related decline of CD28 expression and in immunosenescence. 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.
Product Categories/Family for CD28/TP44 active protein	immunology; Stem cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	340545508
NCBI GeneID	940
NCBI Accession #	NP_001230006.1
NCBI GenBank Nucleotide #	NM_001243077.1
UniProt Accession #	P10747; Q13964; Q52M23; Q8NI54; Q8NI55; Q8NI56; Q8WXJ2; Q9BYV0; A8KAC1
Molecular Weight	25,066 Da
NCBI Official Full Name	T-cell-specific surface glycoprotein CD28 isoform 2
NCBI Official Synonym Full Names	CD28 molecule
NCBI Official Symbol	CD28
NCBI Official Synonym Symbols	Tp44
NCBI Protein Information	T-cell-specific surface glycoprotein CD28; CD28 antigen
UniProt Protein Name	T-cell-specific surface glycoprotein CD28
UniProt Gene Name	CD28
UniProt Entry Name	CD28_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.