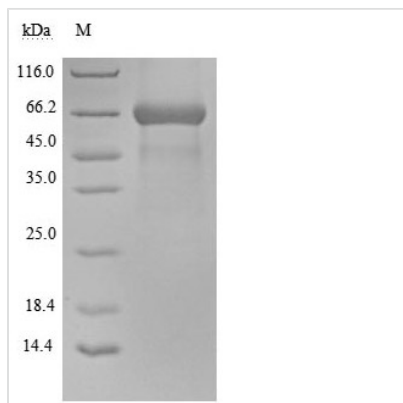


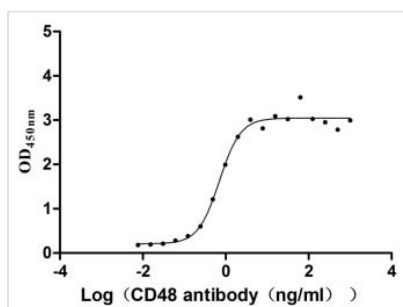


Recombinant Human CD48 antigen (CD48) (Active)

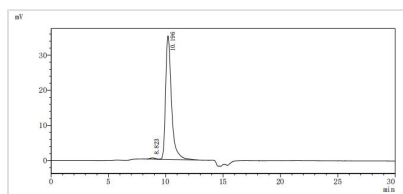
Product Code	CSB-MP004941HU
Relevance	Ligand for CD2. Might facilitate interaction between activated lymphocytes. Probably involved in regulating T-cell activation.
Abbreviation	Recombinant Human CD48 protein (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P09326
Form	Lyophilized powder
Product Type	Others
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CD48 at 2 µg/ml can bind Anti-CD48 rabbit monoclonal antibody, the EC ₅₀ of human CD48 protein is 0.5806-0.8463 ng/ml.
Purity	Greater than 90% as determined by SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Sequence	QGHLVHMTVVSGSNVTNLNISESLPENYKQLTWFYTFDQKIVEWDSRKSKEYFES KFKGRVRLDPQSGALYISKVQKEDNSTYIMRVLKKTGNEQEWKIKLQVLDPV KPKVIEKIEDMDDNCYLKLSVIPGESVNYTWYGDKRPFKELQNSVLETTLM PHNYSRCYTCQVSNSVSSKNGTVCLSPCTLARS
Research Area	Cancer
Source	Mammalian cell
Target Names	CD48
Expression Region	27-220aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal hFc1-tagged
Mol. Weight	51.3 kDa
Protein Length	Full Length of Mature Protein
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 CD48 at 2 µg/ml can bind Anti-CD48 rabbit monoclonal antibody, the EC₅₀ of human CD48 protein is 0.5806-0.8463 ng/ml.



The purity of CD48 was greater than 95% as determined by SEC-HPLC

Description

Human CD48 amino acid Gln27-Ser220 with an N-terminal linker, a TEV (tobacco etch virus)+linker, and a C-terminal human IgG1 Fc tag (Pro100-Lys330), was expressed in mammalian cells. The resulting product is the recombinant human CD48 antigen. The purity of this CD48 protein reaches up to 90% detected by SDS-PAGE. This protein ran at a molecular weight of about 60 kDa by SDS-PAGE due to glycosylation. Its endotoxin content is less than 1.0 EU/ug as determined by the LAL method. The bioactivity of this recombinant CD48 protein was measured in a functional ELISA. This CD48 protein can bind to the CD48 antibody with an EC₅₀ constant of 0.5806-0.8463 ng/ml. And it is available now.

CD48 is a glycosylphosphatidylinositol-anchored protein mainly expressed on hematopoietic cells as membrane-associated and soluble forms. Through interaction with its ligands such as CD2 and CD244, CD48 is involved in adhesion and activation of immune cells, modulation of target cell lysis by cytolytic cells, and detection of microbes through the CD48-Fimh interaction. CD48 is upregulated under inflammatory conditions and some hematologic malignancies.

Endotoxin

Less than 1.0 EU/ug 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°C/-80°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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.