

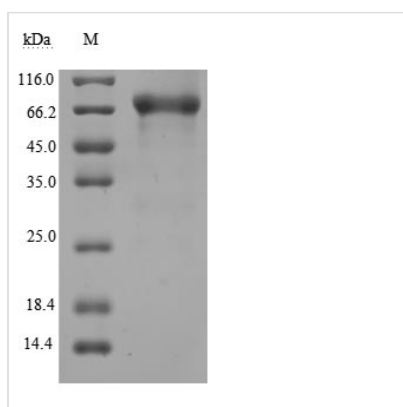


Recombinant Human CD44 antigen (CD44), partial (Active)

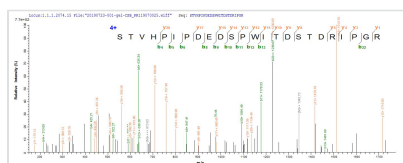
Product Code	CSB-MP004938HU(F1)
Relevance	Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment (PubMed:16541107, PubMed:19703720, PubMed:22726066). Participates thereby in a wide variety of cellular functions including the activation, recirculation and homing of T-lymphocytes, hematopoiesis, inflammation and response to bacterial infection (PubMed:7528188). Engages, through its ectodomain, extracellular matrix components such as hyaluronan/HA, collagen, growth factors, cytokines or proteases and serves as a platform for signal transduction by assembling, via its cytoplasmic domain, protein complexes containing receptor kinases and membrane proteases (PubMed:18757307, PubMed:23589287). Such effectors include PKN2, the RhoGTPases RAC1 and RHOA, Rho-kinases and phospholipase C that coordinate signaling pathways promoting calcium mobilization and actin-mediated cytoskeleton reorganization essential for cell migration and adhesion (PubMed:15123640)(Hyaluronate receptor) (Phagocytic glycoprotein 1) (Phagocytic glycoprotein I) (PGP-I) (LHR) (MDU2) (MDU3) (MIC4)
Abbreviation	Recombinant Human CD44 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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P16070
Storage Buffer	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
Product Type	Others
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CD44 at 2 µg/ml can bind Anti-CD44 mouse monoclonal antibody(CSB-MA004938A0m, antigen from E.coli), the EC50 of the CD44 protein is 11.89-14.94 ng/ml.
Purity	Greater than 95% as determined by SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Sequence	QIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAFNSTLPTMAQMEKALSIGF ETCRYGFIEGHVVIPRIHPNSICAAANNTGVYILTSNTSQQYDITYCFNASAPPEEDC TSVTDLPNAFDGPITITIVNRDGTTRYVQKGEYRTNPEDIYPSNPTDDDDVSSGSS SERSSTSGGYIFYTFSTVHPIPEDDSPWITDSTRIP
Research Area	Cancer
Source	Mammalian cell



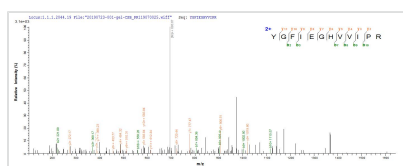
Target Names	CD44
Expression Region	21-220aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal hFc1-tagged
Mol. Weight	51.0 kDa
Protein Length	Partial

Image


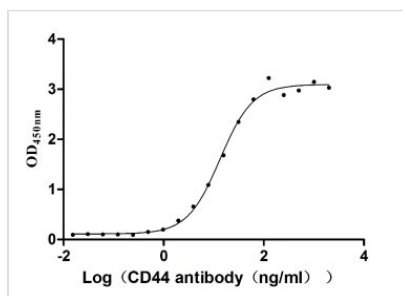
(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



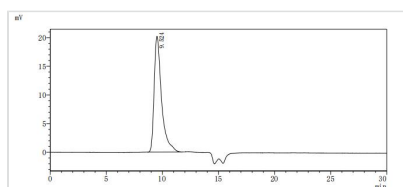
Based on the SEQUEST from database of Mammalian Cell host and target protein, the LC-MS/MS Analysis result of CSB-MP004938HU(F1) could indicate that this peptide derived from Mammalian Cell-expressed Homo sapiens (Human) CD44.



Based on the SEQUEST from database of Mammalian Cell host and target protein, the LC-MS/MS Analysis result of CSB-MP004938HU(F1) could indicate that this peptide derived from Mammalian Cell-expressed Homo sapiens (Human) CD44.



Measured by its binding ability in a functional ELISA. Immobilized CD44 at 2 µg/ml can bind Anti-CD44 mouse monoclonal antibody(CSB-MA004938A0m, antigen from E.coli), the EC50 of the CD44 protein is 11.89-14.94 ng/ml.



The purity of CD44 was greater than 95% as determined by SEC-HPLC



Endotoxin

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

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.