

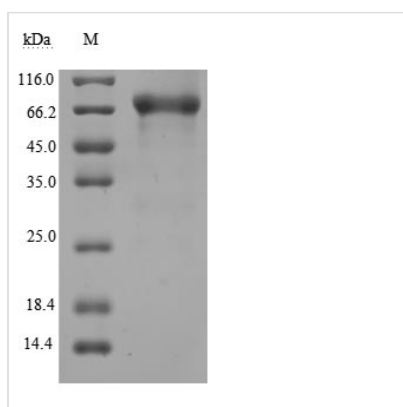


# Recombinant Human CD44 antigen (CD44), partial (Active)

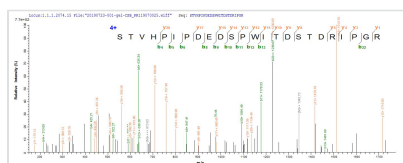
<b>Product Code</b>	CSB-MP004938HU(F1)
<b>Relevance</b>	Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment (PubMed:16541107, PubMed:19703720, PubMed:22726066). Participates thereby 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)
<b>Abbreviation</b>	Recombinant Human CD44 protein, partial (Active)
<b>Storage</b>	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.
<b>Uniprot No.</b>	P16070
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
<b>Product Type</b>	Others
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	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.
<b>Purity</b>	≥ 95% as determined by SDS-PAGE. ≥ 95% as determined by SEC-HPLC.
<b>Sequence</b>	QIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAFNSTLPTMAQMEKALSIGF ETCRYGFIEGHVVIPRIHPNSICAAANTGVYILTSNTSQYDTYCFNASAPPEEDC TSVTDLPNAFDGPITITIVNRDGTTRYVQKGEYRTNPEDIYPSNPTDDDDVSSGSS SERSSTSGGYIFYTFSTVHPIPEDESPWITDSTDRIP
<b>Research Area</b>	Cancer
<b>Source</b>	Mammalian cell



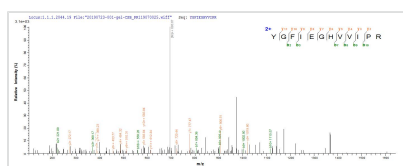
<b>Target Names</b>	CD44
<b>Expression Region</b>	21-220aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	C-terminal hFc1-tagged
<b>Mol. Weight</b>	51.0 kDa
<b>Protein Length</b>	Partial

**Image**


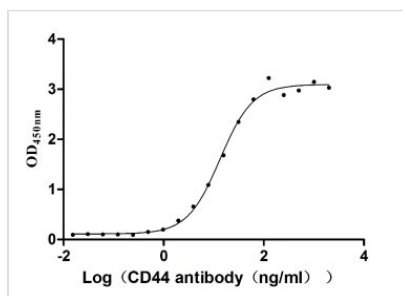
(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



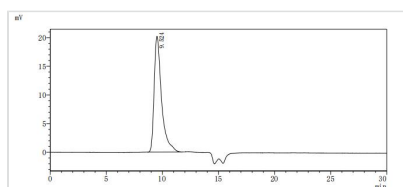
Based on the SEQUEST from database of Mammalian Cell host and target protein, the LC-MS/MS Analysis result of CSB-MP004938HU(F1) could indicate that this peptide derived from Mammalian Cell-expressed Homo sapiens (Human) CD44.



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



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**Endotoxin**

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

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**Shelf Life**

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