

Human CD44 Protein

Cat. No. CDX-HM244

Description

Source	Recombinant Human CD44 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gln21-Pro220 & Gln386-Ala427.
Accession	P16070-1
Molecular Weight	The protein has a predicted MW of 53.57 kDa. Due to glycosylation, the protein migrates to 70-100 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

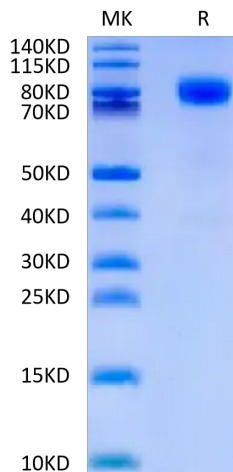
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD44 is a hyaluronan binding cell surface signal transducing receptor that influences motility, cell survival and proliferation as well as the formation of tumor microenvironment. CD44 contains two variable regions encoded by variable exons. Alternative splicing, which is often deregulated in cancer, can produce various isoforms of CD44 with properties that may have different tissue specific effects and therefore even diverse effects on cancer progression

Assay Data

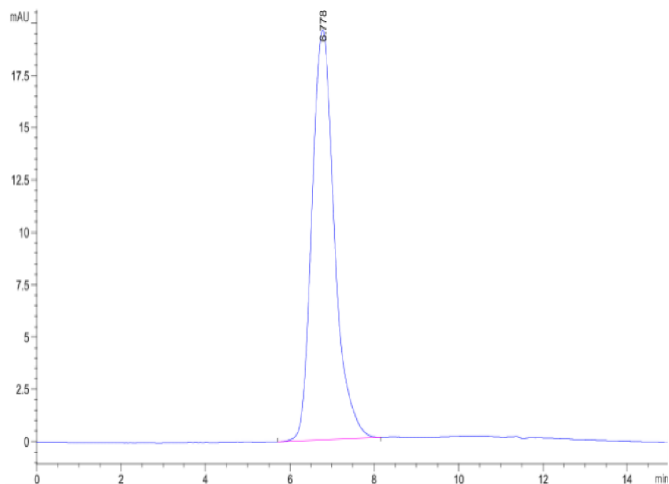
Tris-Bis PAGE



Human CD44 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

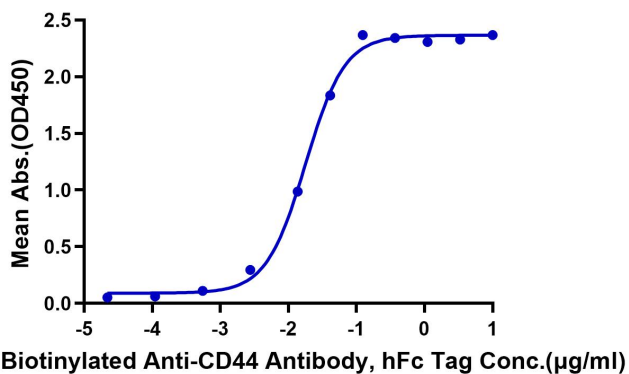
Assay Data



The purity of Human CD44 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human CD44, hFc Tag ELISA
0.05µg Human CD44, hFc Tag Per Well



Immobilized Human CD44, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-CD44 Antibody, hFc Tag with the EC50 of 17.8ng/ml determined by ELISA.