

Recombinant Human CD52 protein, Fc-tagged

Cat. No. CD52-393H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD52 (Gly25-Ser36) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Gly25-Ser36
Description	CAMPATH-1 antigen, also known as cluster of differentiation 52 (CD52), is a glycoprotein that in humans is encoded by the CD52 gene. It is widely expressed on the cell surface of immune cells, such as mature lymphocytes, natural killer cells (NK), eosinophils, neutrophils, monocytes/macrophages, and dendritic cells (DCs). Ligand of cell surface CD52 molecules may offer costimulatory signals for T-cell activation and proliferation.
Predicted N Terminal	Gly25
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 27.9 kDa. The protein migrates as 38-43 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	CD52
Official Symbol	CD52
Synonyms	CD52; CD52 molecule; CD52 antigen (CAMPATH 1 antigen) , CDW52; CAMPATH-1 antigen; he5; cambridge pathology 1 antigen; epididymal secretory protein E5; CD52 antigen (CAMPATH-1 antigen); CDW52 antigen (CAMPATH-1 antigen); human epididymis-specific protein 5; CDW52
Gene ID	1043
mRNA Refseq	NM_001803
Protein Refseq	NP_001794
MIM	114280

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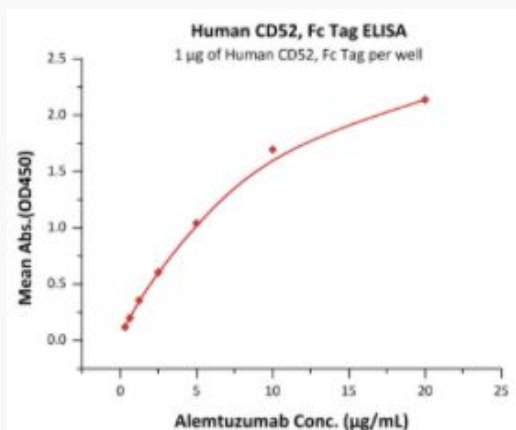
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UniProt ID

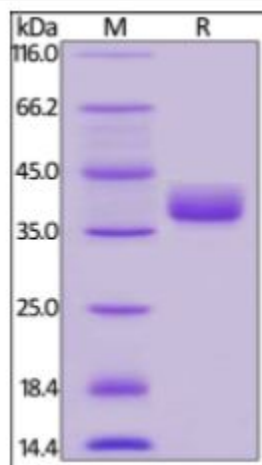
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Bioactivity-ELISA of
CD52-393H



Immobilized Human CD52, Fc Tag at 10 µg/mL (100 µL/well) can bind Alemtuzumab with a linear range of 0.313-10 µg/mL (QC tested).

SDS-PAGE of CD52-
393H



Human CD52, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than

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