

## Product datasheet

# Recombinant human CD40 protein (Active) ab155710

3 Images

### Description

<b>Product name</b>	Recombinant human CD40 protein (Active)	
<b>Biological activity</b>	Immobilized Human CD40 Ligand, His Tag at 5 µg/mL (100 µL/well) can bind ab155710 with a linear range of 0.039-1.25 µg/mL.	
<b>Purity</b>	> 95 % SDS-PAGE. >90% as determined by SEC-HPLC. Protein A purified.	
<b>Endotoxin level</b>	< 1.000 Eu/µg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<b><u>P25942</u></b>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	EPPTACREKQYLINSQCCSLCQPGQKLVS DCTEFTETECL PCGESEFLDT WNRETHCHQH KYCDPNLGLRVQQKGTSETDTICTCEE GW HCTSEACESCV LHRSCSPGFGVKQIATGVSDTICEPCPVGFFSNVSSAFEK CHPWTSCETK DLVVQQAGTNKTDVVCGPQDRLR	
<b>Predicted molecular weight</b>	45 kDa including tags	
<b>Amino acids</b>	21 to 193	
<b>Tags</b>	Fc tag C-Terminus	

### Specifications

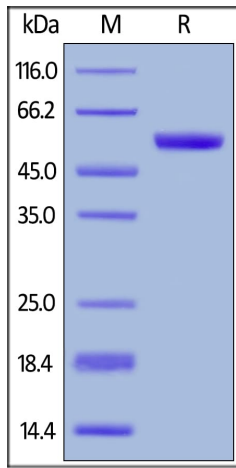
Our **Abpromise guarantee** covers the use of **ab155710** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA
	Functional Studies
	SDS-PAGE
<b>Form</b>	Lyophilized

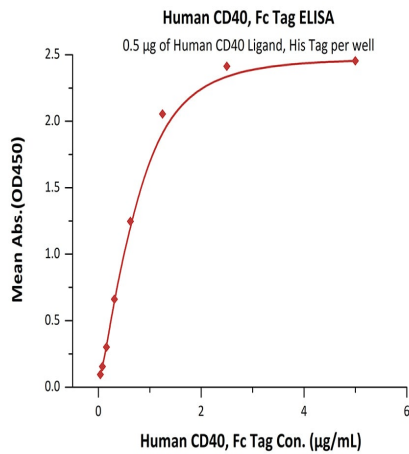
<b>Additional notes</b>	Measured by its binding ability in a functional ELISA. Immobilized ab155710 at 2 µg/ml (100 µl/well) can bind biotinylated Human CD40L with a linear range of 7.8 - 125 ng/ml.
<b>Preparation and Storage</b>	
<b>Stability and Storage</b>	<p>Shipped at 4°C. Store at -20°C or -80°C.</p> <p>pH: 7.4</p> <p>Constituents: 5% Trehalose, 0.75% Glycine, 0.61% Tris, L-Arginine, Sodium chloride</p> <p>Lyophilized from 0.22 µm filtered solution.</p> <p>5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile deionized water to a final concentration of 400 ug/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.
<b>General Info</b>	
<b>Function</b>	Receptor for TNFSF5/CD40LG.
<b>Tissue specificity</b>	B-cells and in primary carcinomas.
<b>Involvement in disease</b>	Defects in CD40 are the cause of hyper-IgM immunodeficiency syndrome type 3 (HIGM3) [MIM:606843]; also known as hyper-IgM syndrome 3. HIGM3 is an autosomal recessive disorder which includes an inability of B cells to undergo isotype switching, one of the final differentiation steps in the humoral immune system, an inability to mount an antibody-specific immune response, and a lack of germinal center formation.
<b>Sequence similarities</b>	Contains 4 TNFR-Cys repeats.
<b>Cellular localization</b>	Secreted and Cell membrane.

## Images



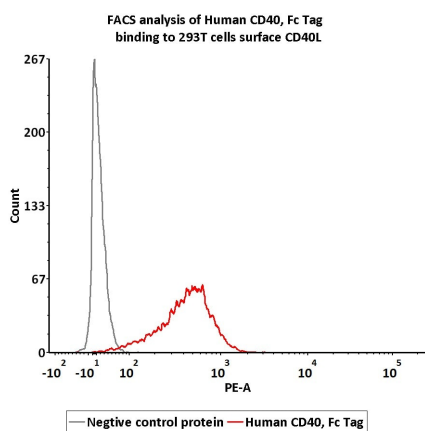
SDS-PAGE - Recombinant human CD40 protein  
(ab155710)

SDS-PAGE of reduced ab155710 stained overnight with Coomassie Blue.



ELISA - Recombinant human CD40 protein  
(ab155710)

Immobilized Human CD40 Ligand, His Tag at 5 µg/mL (100 µL/well) can bind ab155710 with a linear range of 0.039-1.25 µg/mL.



Functional Studies - Recombinant human CD40  
protein (ab155710)

Ab155710 at 0.1 µg/ml can bind to 293T cells overexpressing human CD40L as determined by FACS analysis.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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