Product datasheet

Recombinant human CD40 protein ab155710

3 Images

### Description

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Recombinant human CD40 protein</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Biological activity</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>&gt; 95 % SDS-PAGE.</td>
</tr>
<tr>
<td><strong>Endotoxin level</strong></td>
<td>&lt; 1.000 Eu/µg</td>
</tr>
<tr>
<td><strong>Expression system</strong></td>
<td>HEK 293 cells</td>
</tr>
<tr>
<td><strong>Accession</strong></td>
<td>P25942</td>
</tr>
<tr>
<td><strong>Protein length</strong></td>
<td>Protein fragment</td>
</tr>
<tr>
<td><strong>Animal free</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Nature</strong></td>
<td>Recombinant</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Human</td>
</tr>
<tr>
<td><strong>Sequence</strong></td>
<td>EPPTACREKQYLINSQCCSLCQPGQKLVSDCTEFTET ECLPCGESEFLDT WNRETHCHQHKYCDPNLGLRVQKGTSETDTICTCEE GWHCTSEACESCV LHRSCSPFGVQKIAQVGSDTICEPCPVGFFSNVSSAFEKCHPWTSCE TK DLVQQAGTNKTDVVCQPGDRLR</td>
</tr>
<tr>
<td><strong>Predicted molecular weight</strong></td>
<td>45 kDa including tags</td>
</tr>
<tr>
<td><strong>Amino acids</strong></td>
<td>21 to 193</td>
</tr>
<tr>
<td><strong>Tags</strong></td>
<td>Fc tag C-Terminus</td>
</tr>
</tbody>
</table>

### 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.

**Applications**

- ELISA
- Functional Studies
- SDS-PAGE

**Form**

- Lyophilised
### Additional notes
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.

### Preparation and Storage

#### Stability and Storage
Shipped at 4°C. Store at 4°C prior to reconstitution. Store at -80°C.

pH: 7.00  
Constituents: 5% Trehalose, 0.75% Glycine, 0.61% Tris, L-Arginine, Sodium chloride

Lyophilized from 0.22 µm filtered solution.
5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%
This product is an active protein and may elicit a biological response in vivo, handle with caution.

#### Reconstitution
It is recommended to reconstitute the lyophilized protein in sterile deionized water to a final concentration of 400 µg/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.

### General Info

#### Function
Receptor for TNFSF5/CD40LG.

#### Tissue specificity
B-cells and in primary carcinomas.

#### Involvement in disease
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.

#### Sequence similarities
Contains 4 TNFR-Cys repeats.

#### Cellular localization
Secreted and Cell membrane.

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

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

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/m

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

Our Abpromise to you: Quality guaranteed and expert technical support
• Replacement or refund for products not performing as stated on the datasheet
• Valid for 12 months from date of delivery
• Response to your inquiry within 24 hours

• We provide support in Chinese, English, French, German, Japanese and Spanish
• Extensive multi-media technical resources to help you
• We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors