

Product datasheet

Recombinant human CD40 protein (Fc Chimera Active)
ab83917

3 Images

| Description | |
|---------------------------------|---|
| Product name | Recombinant human CD40 protein (Fc Chimera Active) |
| Biological activity | Activity: The ED ₅₀ of ab83917 is typically 1.0-1.5 ug/ml as measured by its ability to neutralize CD40 ligand mediated proliferation of T47-D cells. |
| Purity | > 95 % SDS-PAGE. |
| Expression system | HEK 293 cells |
| Accession | <u>P25942</u> |
| Protein length | Protein fragment |
| Animal free | No |
| Nature | Recombinant |
| Species | Human |
| Sequence | <div>Theoretical Sequence EPPTACREKQYLINSQCCSLCQPGQKLVSDCTEFTETECL PCGESEFLDT WNR ETHCHQHKYCDPNLGLRVQQKGTSETDTICTCEEGWHCT SEACESCVL HRSC SPGFGVKQIATGVSDTICEPCPVGFFSNVSSAFEKCHPW TSCETKDLV VQQAG TNKTDVVCGPQDRLRRSSNTKVDDKVEPKSCDKTHTCP PCPAPELLGG PSVFL FPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDG VEVHNAKTK PREEQ YNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQP REPQVY TLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPE NNYKTTPPV LDSDG SFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSL SLSPGK</div> |
| Amino acids | 21 to 193 |
| Additional sequence information | Fused with the Fc region of Human IgG1 at the C-terminus. |

Specifications

Our **Abpromise guarantee** covers the use of **ab83917** in the following tested applications.

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

Applications

- SDS-PAGE
- Western blot
- Functional Studies

Form Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles.

Constituents: PBS, 10% Trehalose, 1% Human serum albumin

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. Following reconstitution short-term storage at 4°C is recommended, with longer-term storage in aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

General Info

Function Receptor for TNFSF5/CD40LG.

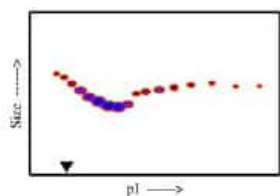
Tissue specificity B-cells and in primary carcinomas.

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

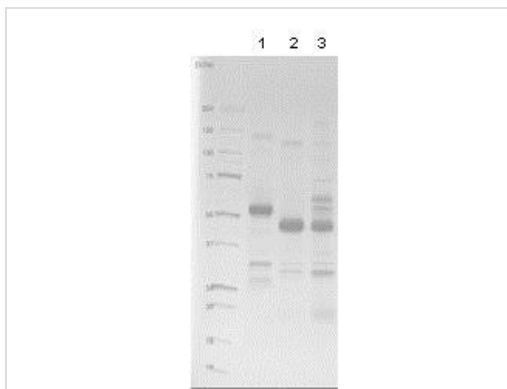


Functional Studies - Recombinant human CD40 protein (Fc Chimera Active) (ab83917)

Densitometry of protein isoforms visualised by 2-DE.

The densitometry scan demonstrates the purified human cell expressed protein exists in multiple isoforms, which differ according to their level of post-translational modification.

The triangle indicates the theoretical MW and pI of the protein.



SDS-PAGE - Recombinant human CD40 protein (Fc Chimera Active) (ab83917)

1D SDS-PAGE of ab83917 before and after treatment with glycosidases to remove oligosaccharides.

Lane 1: ab83917

Lane 2: ab83917 treated with PNGase F to remove potential N-linked glycans

Lane 3: ab83917 treated with a glycosidase cocktail to remove potential N- and O-linked glycans.

Approximately 5 µg of protein was loaded per lane; Gel was stained using Coomassie.



Western blot - Recombinant human CD40 protein (Fc Chimera Active) (ab83917)

Anti-CD40 antibody (**ab13545**) at 1/1000 dilution + Recombinant human CD40 protein (Fc Chimera Active) (ab83917) at 1 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Observed band size: 72 kDa

Exposure time: 8 minutes

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

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