



Product Datasheet

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Recombinant Mouse CD70 Fc-Fusion Protein

Cat No: Pr00161-1.28

Product Summary

Description: Recombinant mouse CD70 Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

Protein: Mouse CD70

Fc domain: Mouse IgG1

Structure / Form: Disulfide-linked homodimer

Species: Mouse

Construct Design Note(s): The extracellular domain of CD70 has been fused to the Fc domain of mouse IgG1.

Host: HEK293

UniProt Accession Number: O55237

Alternative Description: CD70 antigen; CD27 ligand; CD27-L; Tumor necrosis factor ligand superfamily member 7; CD70; CD70-Ig; CD70-Fc chimera; CD70 (Fc tag)

Published Application(s):

Tested Applications(s): ELISA competition assay

Activity: Cytokine that binds to CD27. Plays a role in T-cell activation. Induces the proliferation of costimulated T-cells and enhances the generation of cytolytic T-cells [Uniprot].

Product Form

Purification: IMAC purified

Supplied in: 0.1 mg size: PBS with preservative (0.02% Proclin 300), 1 mg size: PBS only.

Endotoxin: <1.0 EU/mg

Shipping: The product is shipped on blue ice. Upon receipt, store it immediately at the temperature recommended.

Storage Recommendation: Store at 4°C for up to 1 month. For longer term storage aliquot in small volumes and store at -20°C. Avoid repeated freeze-thaw cycles.

SDS PAGE Purity: >95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals

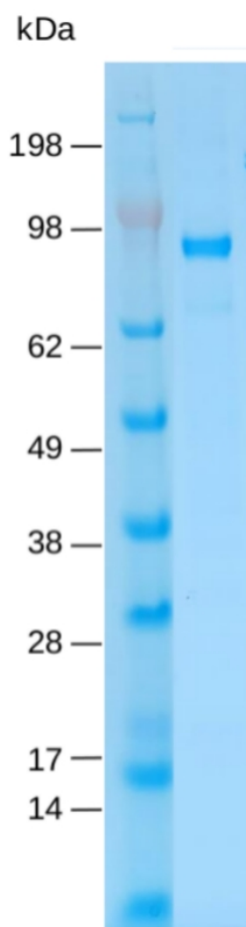
Fc-Fusion Sequence (monomer)

HHHHHHVPRDCGCKPCICTVPEVSSVFIFPPKPKDVLMSLTPKVTCVVVDISKDDPEVQFSWFVDDVEVHTAQTTPRE
EQINSTFRSVSELPILHQDWLNGKEFKCRVNSAAFPAPIEKTISKTKGRPKAPQVYTIPPPKEQMAKDKVSLTCMITNFF
PEDITVEWQWNGQPAENYKNTQPIMDTDGSYFVYSKLVNQKSNWEAGNTFTCSVLHEGLNHHHTEKSLSHSPGAGG
GGSGGGGSLSKQQQRLLHPEPHTAELQLNLTVPRKDPTLRWGAGPALGRSFTHGPELEEGHLRIHQDGLYRLHIQV
TLANCSSPGSTLQHRATLAVGICSPAAGHISLLRGRFGQDCTVALQRLTYLVHGDVLTNLTPLLLPSRNADETFFGVQ
WICP

Underlined amino acids sequence include a G4S linker and 6xHis epitope tag, respectively.

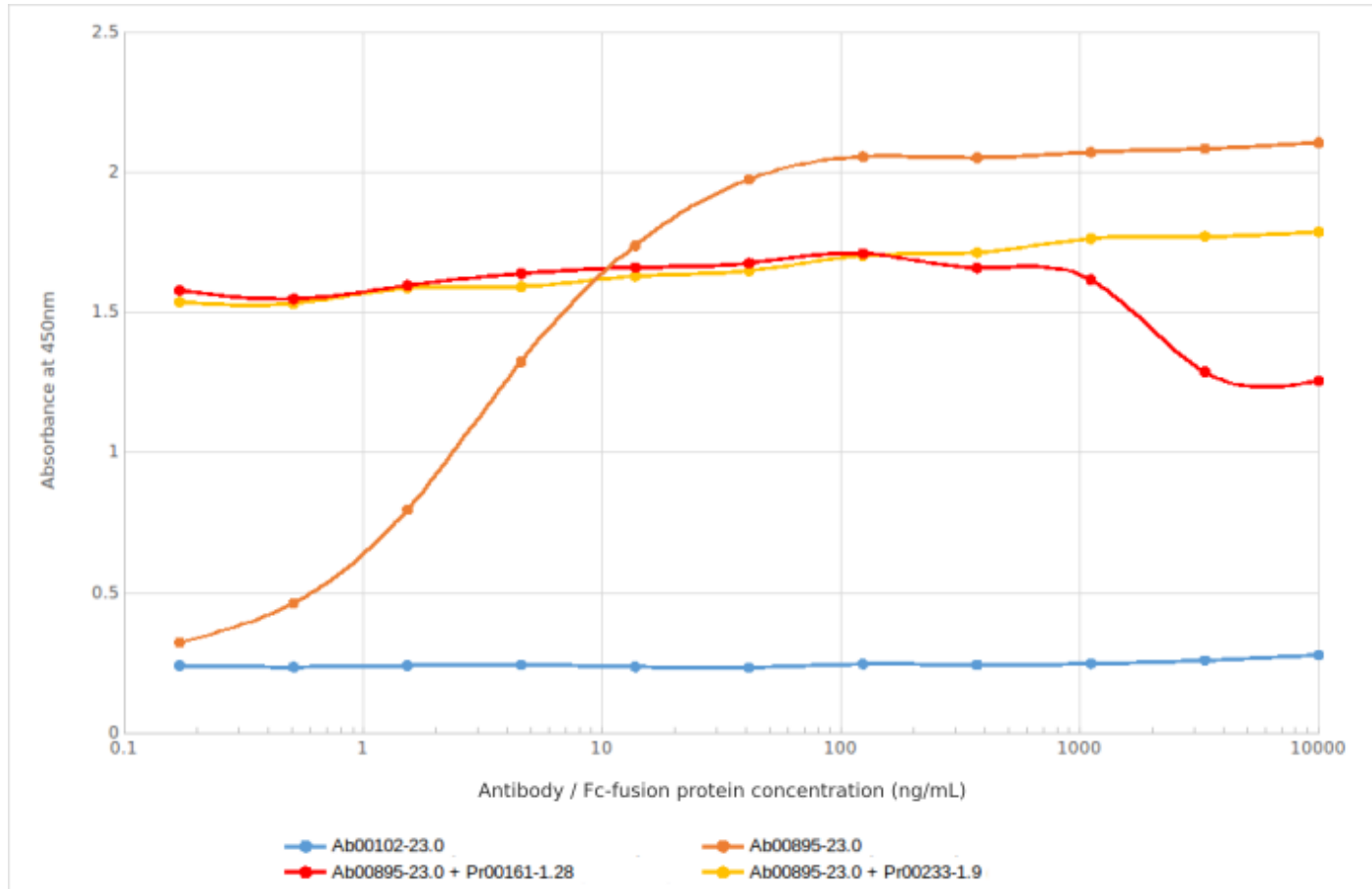
Calculated Molecular weight (dimer): 87590 Da

Extinction coefficient: 96830 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).



CD70 (Pr00161-1.28) SDS-PAGE. Pr00161-1.28 under non-reducing conditions resolved by SDS-PAGE and stained using Coomassie-Blue

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ELISA of anti-CD27 antibody on CD27-Fc fusion protein, with a CD70 (CD27-L) competition assay. Binding curves of the rabbit IgG chimeric version of the anti-CD27 (Interleukin-2 receptor subunit alpha) antibody RM27-3E5 (Ab00895-23.0; red line) and isotype control (anti-Fluorescein antibody Ab00102-23.0 4-4-20 (enhanced); blue line) to an ELISA plate coated with CD27-Fc fusion protein (Pr00160-1.9) at a concentration of 5 µg/ml. A 3-fold serial dilution from 10 mg/mL to 0.17 ng/ml of Ab00895-23.0 was used. CD70 (CD27-L) is the ligand for CD27. CD70 Fc-fusion protein (Pr00161-1.28) was added to a 10mg/mL solution of Ab00895-23.0 starting at 10mg/mL, and then at 3-fold dilutions down to 0.17ng/mL (red line). A negative control assay using 4-1BB Fc-fusion protein (Pr00233-1.9) was also performed (yellow line). Inhibition of the binding of Ab00895-23.0 to Pr00160-1.9 (CD27) by Pr00161-1.28 (CD70) may be observed between 10,000 ng/mL and 123 ng/mL of Pr00161-23.0, whereas Pr00233-1.9 (4-1BB) does not inhibit Ab00895-23.0 binding. For signal detection, a 1:4000 dilution of HRP-labelled anti-human IgG antibody was used.

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