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Recombinant Mouse CD27 Fc-Fusion Protein

Cat No: Pr00160-1.9

Product Summary

Description: Recombinant mouse CD27 Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

Protein: Mouse CD27

Fc domain: Mouse IgG1

Structure / Form: Disulfide-linked homodimer

Species: Mouse

Construct Design Note(s): The extracellular domain of CD27 has been fused to the Fc domain of mouse IgG1.

Host: HEK293

UniProt Accession Number: P41272

Alternative Description: CD27; S152; S152. LPFS2; T14; TNFRSF7; Tp55; CD27 molecule; Tumour Necrosis Factor Receptor Superfamily Member 7

Published Application(s): A CD27-Fc consisting of the ECD of CD27 and the Fc of human IgG1 was utilised as a probe to detect CD27L in flow cytometry, staining with biotinylated antibody for the Fc domain of human IgG followed by streptavidin-phycoerythrin. This was also used to show specific binding of CD27-Fc to MP-1 cells in a slide-based autoradiographic screening technique in which specifically bound CD27-Fc was detected by incubation with 125I-labelled mouse antibody for human IgG1 (direct radiolabelling of CD27-Fc resulted in its inactivation) (Goodwin et al, 1993). CD27-human IgG1 Fc has been used to immunoprecipitate cell lysates for SDS-PAGE analysis and to inhibit the T cell proliferative response induced by mCD80-P815 cells (Oshima et al 1998).

Tested Applications(s): ELISA

Activity: CD27 is the receptor for CD70/CD27L and is important in the survival of activated T-cells.

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.

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

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

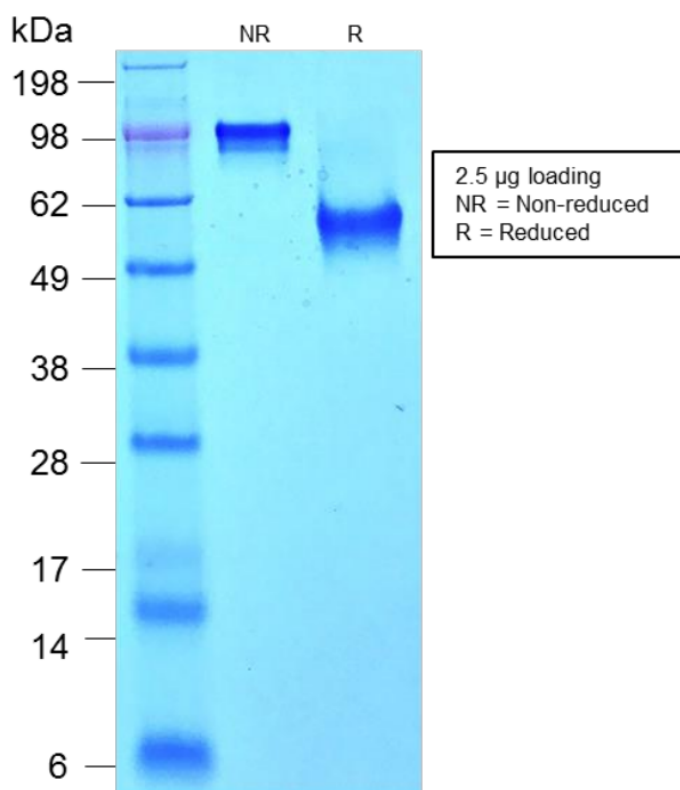
Fc-Fusion Sequence (monomer)

APNSCPDKHYWTGGGLCCRMCEPGTFFVKDCEQDR~~TAAQCDPCIPGTSFSPDYHTRPHCESCRHCNSGFLIRNCTV~~
TANAECSCSKNWQCRDQECTECDPPLNPALTRQPSETPSPQPPPTHLPHGTEKPSWPLHRQLPNSTVYSQRSSHRP
LCSSDCIRGGGGSVPRDQGCKPCICTVPEVSSVFIFPPKPKDVLITLTPKVTCVVVDISKDDPEVQFSWFVDDDEVHTA
QTKPREEQINSTFRSVSELPIMHQDWLNGKEFKCRVNSAAFPAPIEKTISKTKGRPKAPQVYTIPPPKEQMAKDKVSLT
CMITNFFPEDITVEWQWNGQPAENYKNTQPIMDTDGSYFVYSKLVQKSNWEAGNTFTCSVLHEGLHNHHTKSLSH
SPGKHHHHHH

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

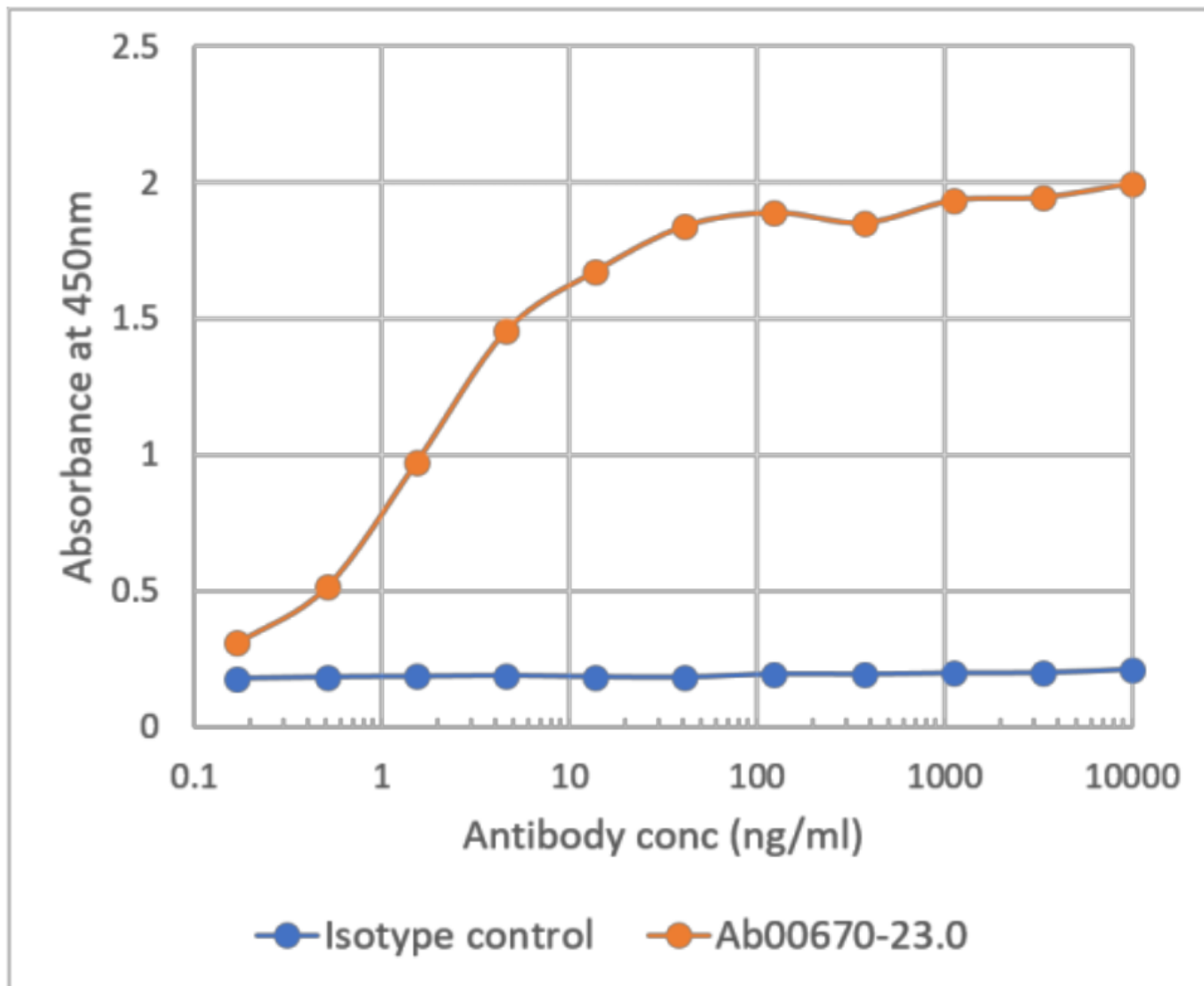
Calculated Molecular weight (dimer): 89152 Da

Extinction coefficient: 112760 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).



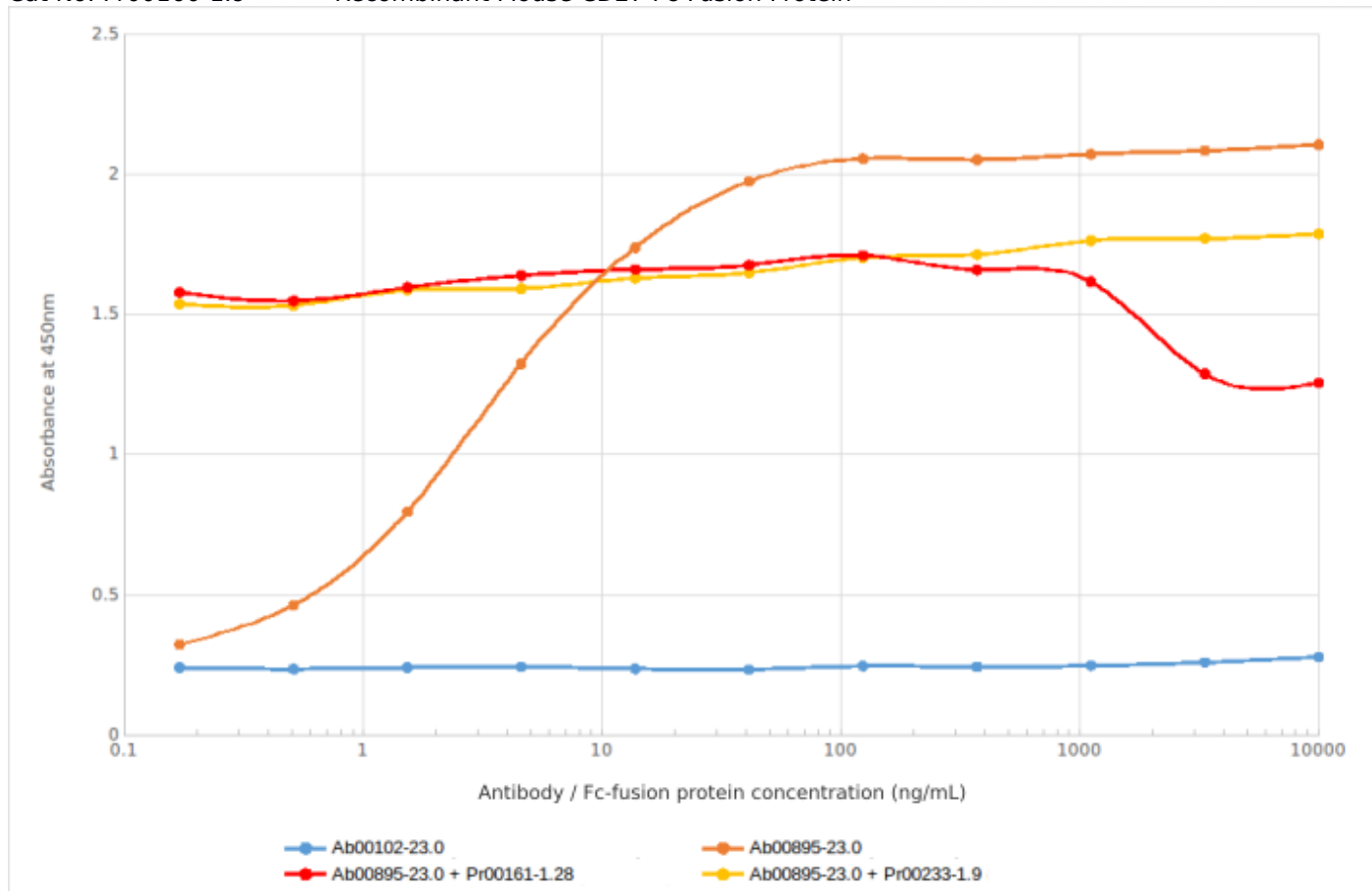
CD27 (Pr00160-1.9) SDS-PAGE. Pr00160-1.9 under non-reducing and reducing (DTT) conditions resolved by SDS-PAGE and stained using Coomassie-Blue.

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Binding curve of anti-CD27 antibody LG.3A10 (Ab00670-23.0) to mouse CD27-Fc fusion protein. ELISA Plate coated with mouse CD27-Fc fusion protein (Pr00160-1.9) at a concentration of 5 μ g/ml. A 3-fold serial dilution from 10,000 to 0.1 ng/ml was performed using Ab00670-23.0. For detection, a 1:4000 dilution of HRP-labelled goat anti-rabbit antibody (Bio-Rad) was used.

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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 μ g/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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