



## 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; SDS-PAGE

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

**Reacts with antibody:** anti-CD27 [LG.3A10] (Ab00670)

### Product Form

**Purification:** Purified by affinity chromatography using Protein A.

**Supplied in:** PBS

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

**Storage recommendation:** Recommended storage at 4°C for up to 1 month. For longer term storage store at -20°C or -80°C in appropriate sized aliquots.

**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)**

APNSCPDKHYWTGGGLCCRMCEPGTFFVKDCEQDRATAAQCDPCIPGTSFSPDYHTRPHCESCRHCNSGFLIRNCTV  
TANAECSCSKNWQCRDQECTECDPPLNPALTRQPSETPSPQPPTHLPHGTEKPSWPLHRQLPNSTVYSQRSSHRP  
LCSSDCIRGGGGSVPRDQGCKPCICTVPEVSSVFIFPPKPKDVLITITLTPKVTCVVVDISKDDPEVQFSWFVDDVEVHT  
AQTKPREEQINSTFRSVSELPIMHQDWLNGKEFKCRVNSAAFPAPIEKTISKTKGRPKAPQVYTIPPPKEQMAKDKVSL  
TCMITNFFPEDITVEWQWNGQPAENYKNTQPIMDTDGSYFVYSKLVQKSNWEAGNTFTCSVLHEGLHNHHTKSLS  
HSPGKHHHHHH

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).

## Representative Analysis and Activity Data

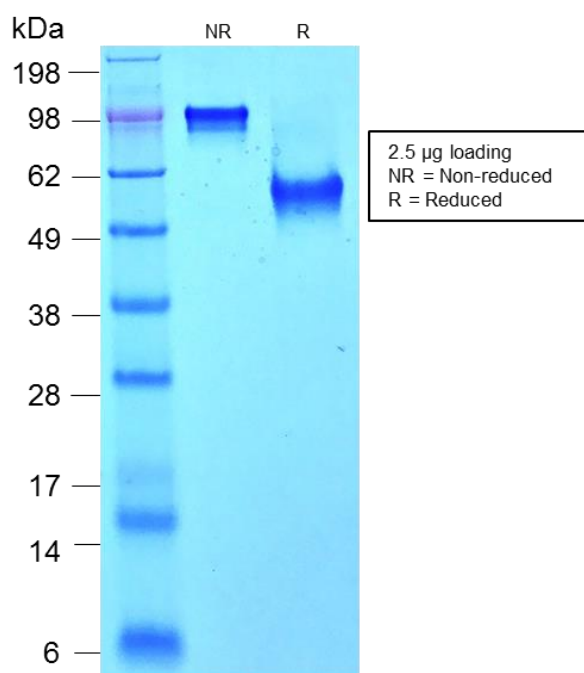
**Lot no:** T1727B19

**Concentration:** 1 mg/ml

**Endotoxin level:** <1 EU/mg as determined by LAL chromogenic endotoxin assay

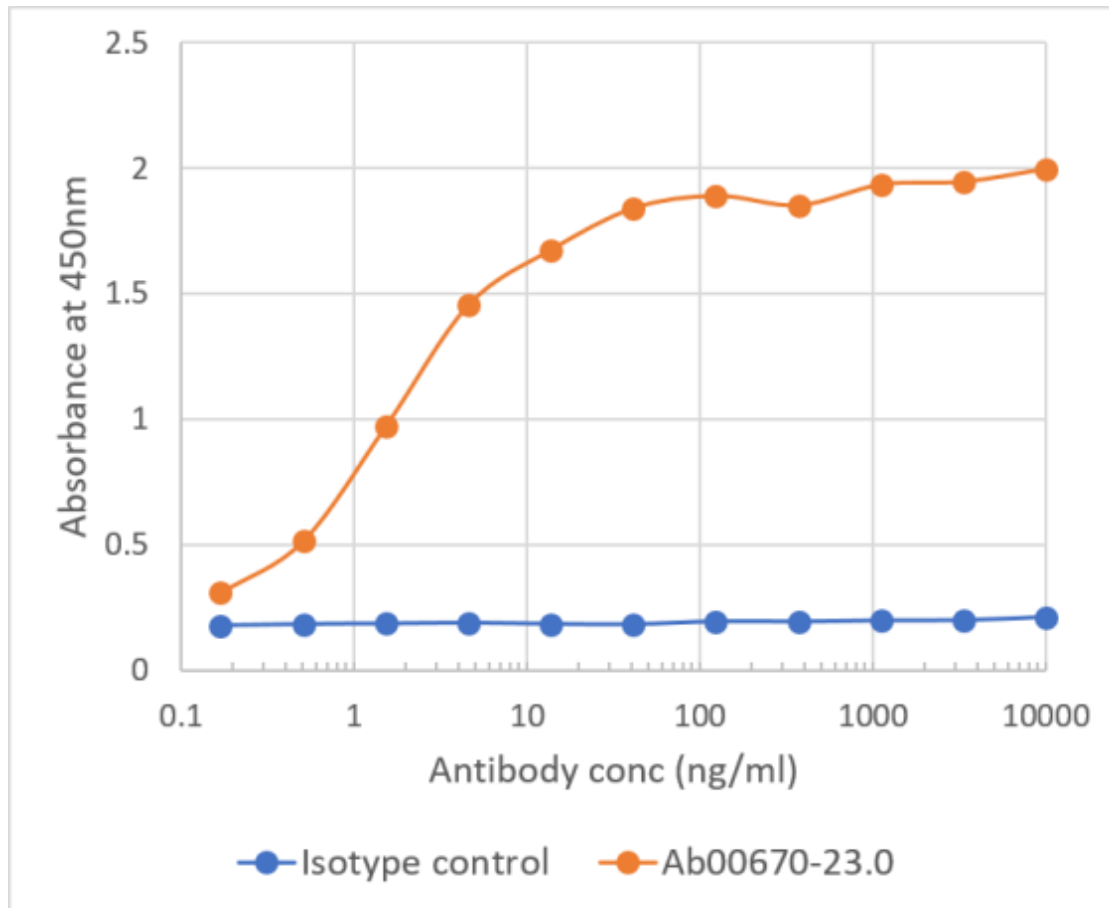
**SDS PAGE Purity:** >98%

**SDS-PAGE gel image:**



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

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**ELISA:**

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  $\mu\text{g/ml}$ . 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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