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### Recombinant Mouse 4-1BBL Fc-Fusion Protein

Cat No: Pr00159-1.28

## Product Summary

**Description:** Recombinant mouse 4-1BBL Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

**Protein:** Mouse 4-1BBL

**Fc domain:** Mouse IgG1

**Structure / Form:** Disulfide-linked homodimer

**Species:** Mouse

**Construct Design Note(s):** The extracellular domain of 4-1BBL has been fused to the Fc domain of mouse IgG1.

**Host:** HEK293

**UniProt Accession Number:** P41274

**Alternative Description:** TNFL9; tumour necrosis factor ligand superfamily member 9; CD137L; TNLG5A; 4-1BBL-Ig; 4-1BBL-Fc chimera; 4-1BBL (Fc tag)

**Published Application(s):** The ECD of murine 4-1BBL fused with modified human IgG1 Fc was used to stimulate T cells, augmenting the anti-CD3-mediated proliferative response of CD4+ and CD8+ T cells (Taraban et al, 2002). 4-1BBL-Fc shows tumour-binding activity in biodistribution analysis in mice and causes tumour regression *in vitro* (Zhang et al 2007). Murine 4-1BBL fused to mouse IgG-Fc was used in ELISA assays for CD137-Fc, using goat anti-human IgG-HRP antibodies to detect binding (Yi et al, 2014).

**Tested Applications(s):** ELISA

**Activity:** 4-1BBL binds to TNFRSF9, a TM glycoprotein expressed on activated T cells, and induces proliferation.

## 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.

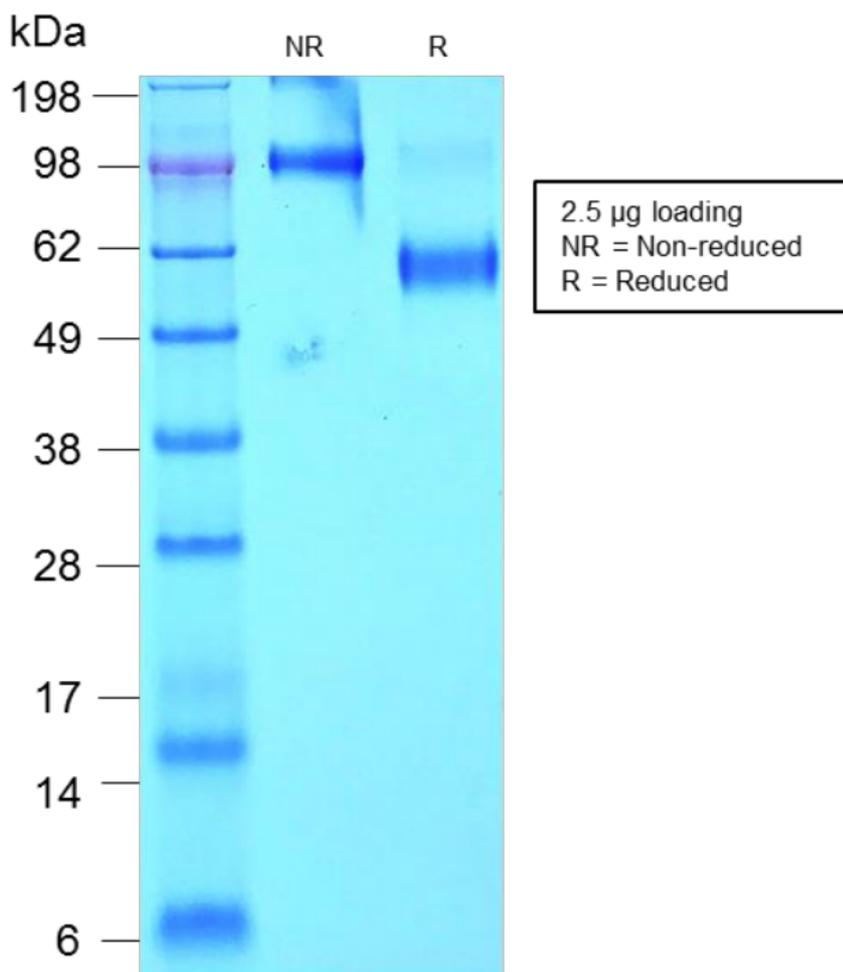
**Fc-Fusion Sequence (monomer)**

HHHHHHVPRDCGCKPCICTVPEVSSVFIFPPKPKDVLMI~~SLTPKVTCVV~~DISKDDPEVQFSWFVDDVEVHTAQT~~KPRE~~  
EQINSTFRSVSELPILHQDWLNGKEFKCRVNSAAFPAPIEKTI~~SKTKGRPKAPQVYTIPPPKEQMAKDKVSLTCMITNFF~~  
PEDITVEWQWNGQPAENYKNTQPIMDTDGSYFVYSKLN~~VQKSNWEAGNTFTCSVLHEGLNHHHTEKSLSHSPGAGG~~  
GGSGGGGSTRTEPRPALTIT~~TTSPNLGTRENNADQVTPVSHIGCPNTTQQGSPVFAKLLAKNQASLCNTTLN~~WHSQDG  
AGSSYLSQGLRYEEDKKELVVDSPGLYYVFLELKL~~SPTFTNTGHKVQGWVSLVLQAKPQVDDFDNLALTVELFPCSME~~  
NKLVD~~RSWSQLLLLLKAGHRLSVGLRAYLHGAQDAYRDWELSY~~PNTT~~SFGLFLVKPDNPWE~~

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

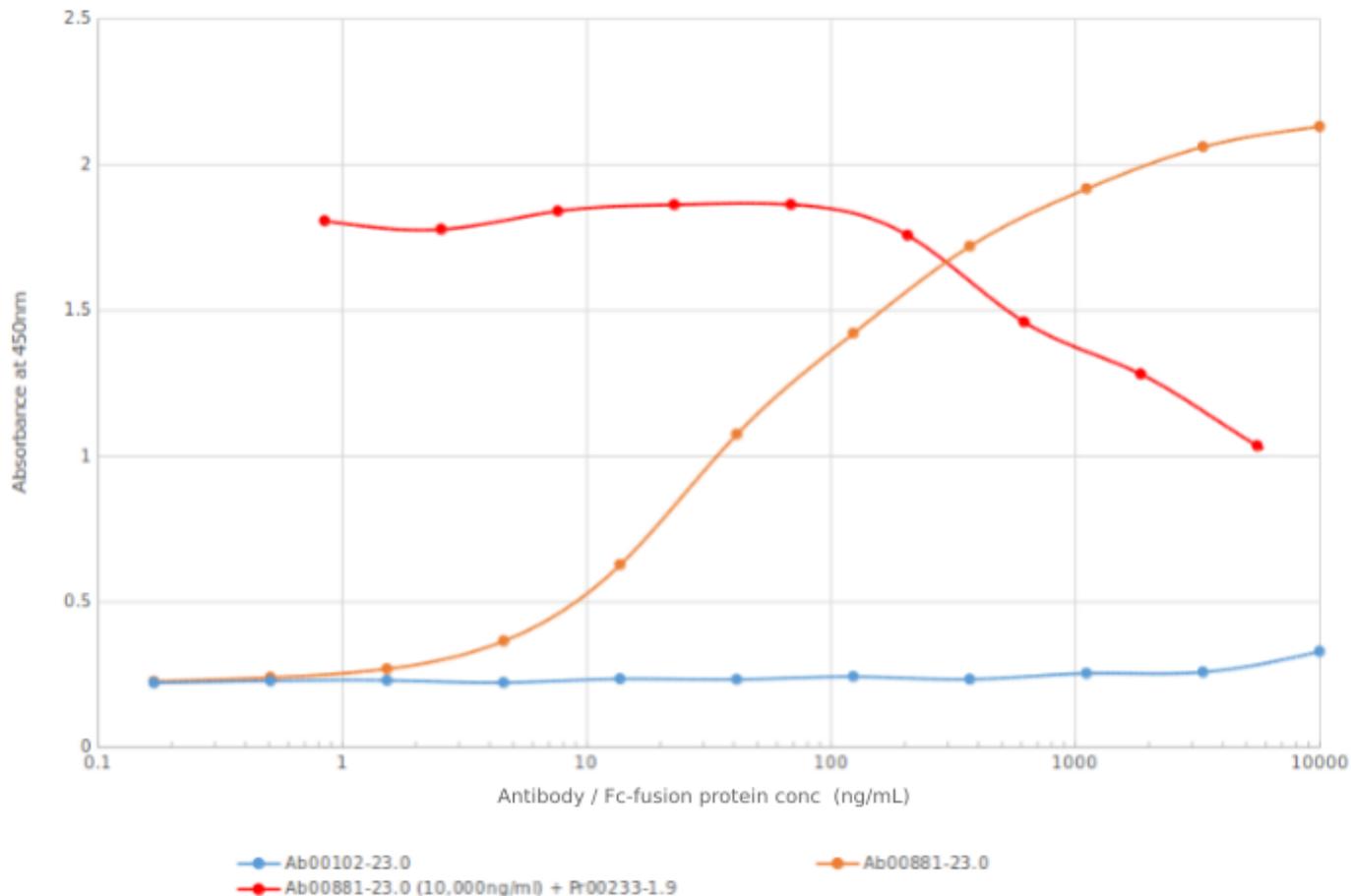
**Calculated Molecular weight (dimer):** 100191 Da

**Extinction coefficient:** 144430 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).



**Pr00159-1.28 (4-1BBL) SDS-PAGE.** Pr00159-1.28 under non-reducing and reducing (DTT) conditions resolved by SDS-PAGE and stained using Coomassie-Blue.

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**ELISA of anti-4-1BBL antibody on 4-1BBL-Fc fusion protein.** Binding curves of the rabbit IgG chimeric version of the anti-4-1BBL antibody TKS-1 (Ab00881-23.0; orange line) and isotype control (Ab00102-23.0, anti-Fluorescein; blue line) to an ELISA plate coated with mouse 4-1BBL C-terminal Fc-fusion protein (Pr00159-1.28) at a concentration of 5  $\mu\text{g/ml}$ . A 3-fold serial dilution from 10,000 to 0.17 ng/ml of Ab00881-23.0 was used. A competition assay was also performed; Ab00881-23.0 (10  $\mu\text{g/ml}$ ) was mixed with mouse 4-1BB N-terminal Fc-fusion protein (Pr00233-1.9) at a concentration of 5  $\mu\text{g/ml}$ -0.76 ng/ml (3-fold dilution series) and the ELISA repeated (red line). For signal detection, a 1:4000 dilution of HRP-fused anti-rabbit IgG antibody was used.

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