



## Product Datasheet

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### Recombinant Mouse OX40 Fc-Fusion Protein

Cat No: Pr00154-1.9

## Product Summary

**Description:** Recombinant mouse OX40 Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

**Protein:** Mouse OX40

**Fc domain:** Mouse IgG1

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

**Species:** Mouse

**Construct Design Note(s):** The extracellular domain of OX40 has been fused to the Fc domain of mouse IgG1.

**Host:** HEK293

**UniProt Accession Number:** P47741

**Alternative Description:** Tumor necrosis factor receptor superfamily member 4; TNFRSF4; CD134; OX40L receptor; ACT35; IMD16; TXGP1L

**Published Application(s):** The binding of OX40-Fc to OX40L has been measured in the presence and absence of anti-mouse OX40 antibody by flow cytometry (Seko et al, 2001). Binding of MuOX40-human IgG Fc has also been detected in flow cytometry with goat  $\alpha$  human IgG biotin to analyse cell-surface expression of OX40L on T cells (Baum et al, 1994). An OX40-Fc has been coupled to protein G-coated beads to facilitate partitioning of RNA aptamers specific to OX40 by the SELEX method (Dollins et al, 2008). Murine OX40-IgG1 and OX40-IgG2a have been used to block the OX40/OX40L interaction in mice with chronic DSS-induced colitis. This reduced epithelial damage and inflammation (Obermeier et al, 2003).

**Tested Applications(s):** ELISA; SDS-PAGE

**Activity:** OX40 is the receptor for TNFSF4/OX40L/GP34. It is a secondary costimulatory immune checkpoint molecule implicated in long-term T-cell immunity.

**Reacts with antibody:** Anti-CD134 [OX86] (Ab00110)

## 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.

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

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Recombinant Mouse OX40 Fc-Fusion Protein

**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.

### Fc-Fusion Sequence (monomer)

GVTARRLNLCVKHTYPSGHKCCRECCQPGHGMVSRCDHTRDTLCHPCETGFYNEAVNYDTCKQCTQCNHRSGSELKQ  
NCTPTQDTCRCRPGTQPRQDSGYKLGVDCVPCPPGHFSPGNNQACKPWTNCTLSGKQTRHPASDSLDAVCEDRS  
LLATLLWETQRPTFRPTTVQSTTVWPRTSELSPPTLVTPEGGGGSVPRDQGCKPCICTVPEVSSVFIFPPKPKDVLTI  
TLTPKVTCVVVDISKDDPEVQFSWFVDDVEVHTAQTKPREEQINSTRFSVSELPIMHQDWLNGKEFKCRVNSAAFPAP  
IEKTISKTKGRPKAPQVYTIPPPKEQMAKDKVSLTCMITNFFPEDITVEWQWNGQPAENYKNTQPIMDTDGSYFVYSKL  
NVQKSNWEAGNTFTCSVLHEGLHNHHTTEKSLSHSPGKHHHHHH

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

**Calculated Molecular weight (dimer):** 95814 Da

**Extinction coefficient:** 115740 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).

## Representative Analysis and Activity Data

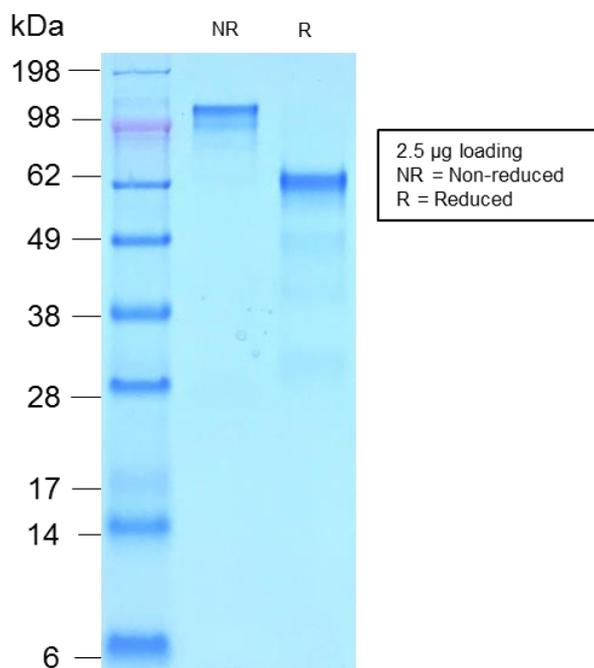
**Lot no:** T1727B13

**Concentration:** 1 mg/ml

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

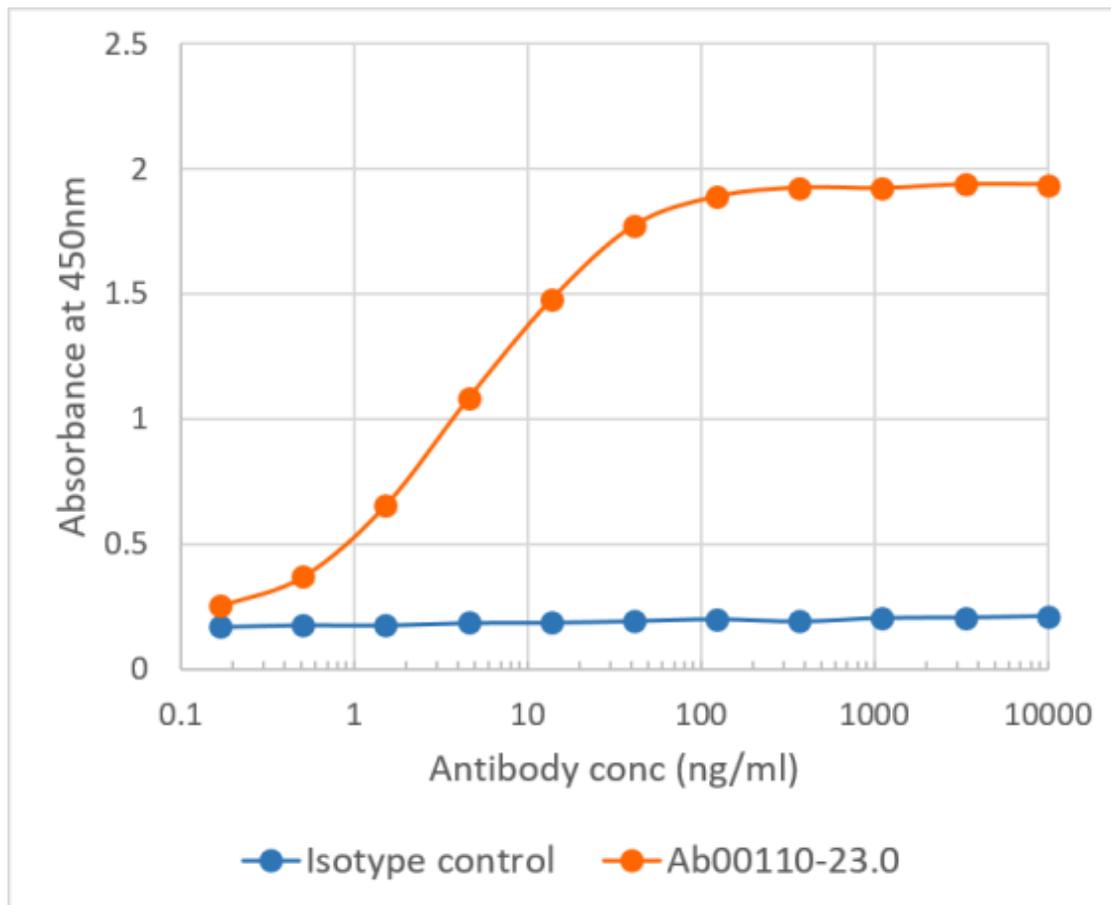
**SDS PAGE Purity:** >98%

**SDS-PAGE gel image:**



Pr00154-1.9 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-CD134 antibody OX86 (Ab00110-23.0) to mouse CD134-Fc fusion protein. ELISA Plate coated with mouse CD134-Fc fusion protein (Pr00154-1.9) 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 Ab00110-23.0. For detection, a 1:4000 dilution of HRP-labelled goat anti-rabbit antibody (Bio-Rad) was used.

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