



## Product Datasheet

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### Recombinant Mouse B7-H3 Fc-Fusion Protein

Cat No: Pr00158-1.9

## Product Summary

**Description:** Recombinant mouse B7-H3 Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

**Protein:** Mouse B7-H3

**Fc domain:** Mouse IgG1

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

**Species:** Mouse

**Construct Design Note(s):** The extracellular domain of B7-H3 has been fused to the Fc domain of mouse IgG1.

**Host:** HEK293

**UniProt Accession Number:** Q8VE98

**Alternative Description:** CD276; B7H3; B7RP-2; B7 Homolog 3

**Published Application(s):** A muB7-H3-human IgG1 fusion protein has been biotinylated and used to examine expression of a putative B7-H3 receptor in flow cytometry (Sun et al, 2002). A B7-H3 fusion protein of the B7-H3 ECD with mouse IgG2a has been used to determine expression levels of B7-H3 on T cells in flow cytometry and immobilised B7-H3-Fc inhibits proliferation of CD4 and CD8 T cells, and production of IL-2 and IFN- $\gamma$ , in a dose-dependent manner (Chapoval et al, 2001).

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

**Activity:** B7-H3 is an immune checkpoint molecule ubiquitously expressed in almost all tissues. It modulates T-cell mediated immune responses and the development of acute and chronic transplant rejection.

**Reacts with antibody:** anti-B7-H3 [MJ18] (Ab00884)

## 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)**

AVEVQVSEDPVVALVDTDATLRCSFSPEPGFSLAQLNLIWQLTDTKQLVHSFTEGRDQGSAYSNRTALFPDLLVQGNA  
SLRLQRVRVTDEGSYTCFVSIQDFDAAVSLQVAAPYSKPSMTLEPNKDLRPGNMVTITCSSYQGYPEAEVFWKDGQ  
GVPLTGNVTTSSQMANERGLFDVHSLRVVVLGANGTYSCLVRNPVLQQDAHGSVTITGQPLTFPPEGGGGSVPRDQG  
CKPCICTVPEVSSVFIFPPKPKDVLITLTPKVTCVVVDISKDDPEVQFSWFVDDVEVHTAQTKPREEQINSTFRSVSEL  
PIMHQDWLNGKEFKCRVNSAAFPAPIEKTISKTKGRPKAPQVYTIPPPKEQMAKDKVSLTCMITNFFPEDITVEWQWN  
GQPAENYKNTQPIMDTDGSYFVYSKLVQKSNWEAGNTFTCSVLHEGLHNHHTKSLSHSPGKHHHHHH

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

**Calculated Molecular weight (dimer):** 101200 Da

**Extinction coefficient:** 108600 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).

## Representative Analysis and Activity Data

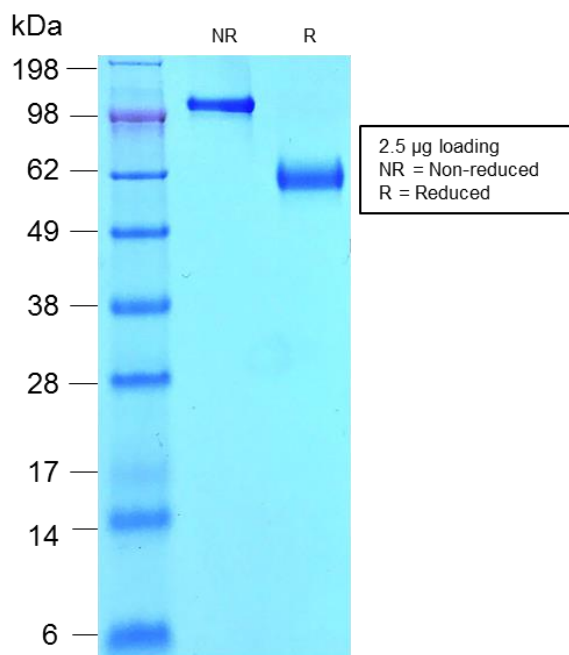
**Lot no:** T1727B17

**Concentration:** 1 mg/ml

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

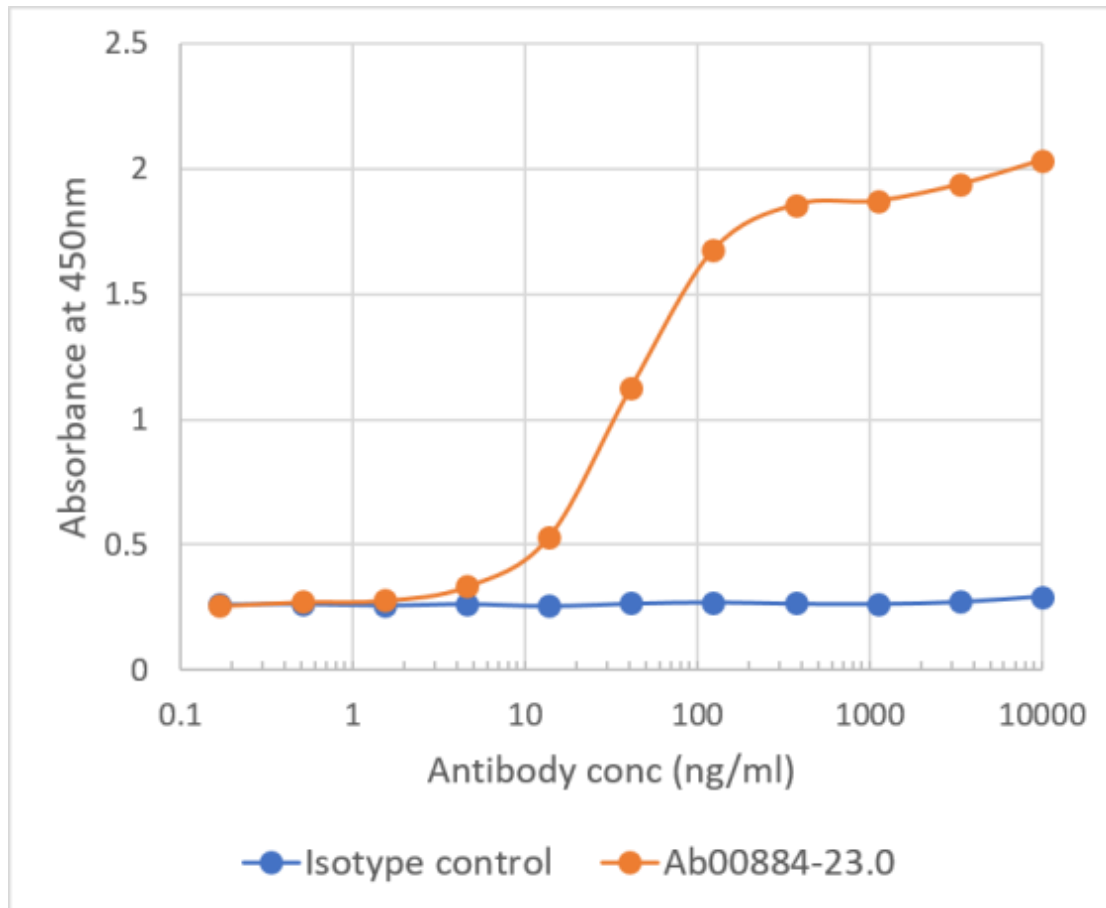
**SDS PAGE Purity:** >98%

**SDS-PAGE gel image:**



Pr00158-1.9 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-B7-H3 antibody MJ18 (Ab00884-23.0) to mouse B7-H3-Fc fusion protein. ELISA Plate coated with mouse B7-H3-Fc fusion protein (Pr00158-1.9) at a concentration of 5 µg/ml. A 3-fold serial dilution from 10,000 to 0.1 ng/ml was performed using Ab00884-23.0. For detection, a 1:4000 dilution of HRP-labelled goat anti-rabbit antibody (Bio-Rad) was used.

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