



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- γ , 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
SLRLQRVRVTDEGSYTCFVSIQDFDSSAAVSLQVAAPYSKPSMTLEPNKDLRPGNMVTITCSSYQGYPEAEVFWKDGQ
GVPLTGNVTTSSQMANERGLFDVHSLRVVVGANGTYSCLVRNPVLQQDAHGSVTITGQPLTFPPEGGGGSVPRDQG
CKPCICTVPEVSSVFIFPPKPKDVLITLTPKVTCVVVDISKDDPEVQFSWFVDDVEVHTAQTKPREEQINSTFRSVSEL
PIMHQDWLNGKEFKCRVNSAAFPAPIEKTISKTKGRPKAPQVYTIPPPKEQMAKDKVSLTCMITNFFPEDITVEWQWN
GQPAENYKNTQPIMDTDGSYFVYSKLVNQSWEAGNTFTCSVLHEGLHNHHTKSLSHSPGKHHHHHH

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

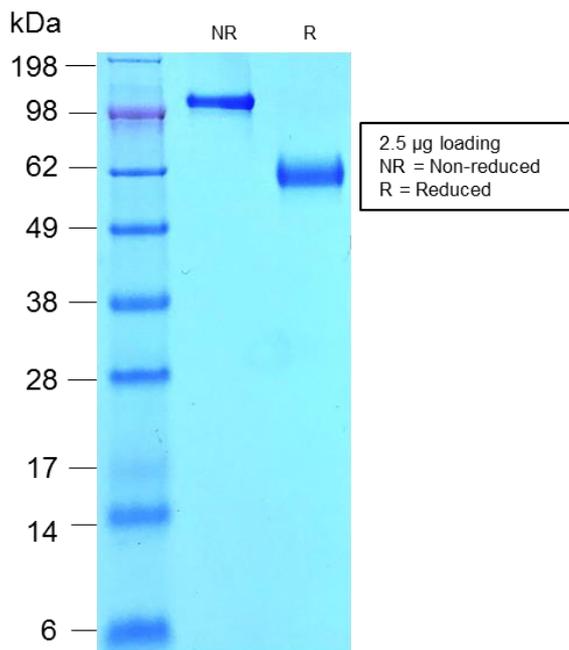
Lot no: T1727B17

Concentration: 1 mg/ml

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

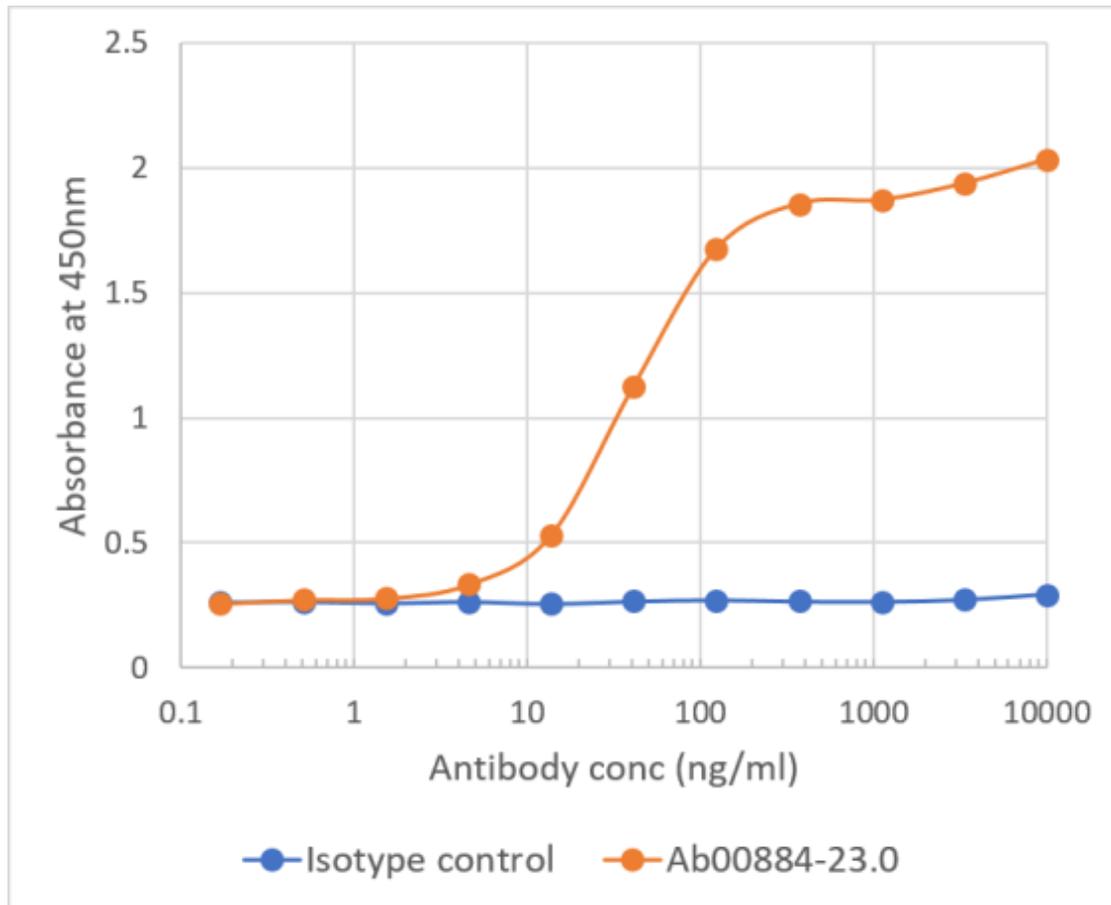
SDS PAGE Purity: >98%

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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