



Recombinant Mouse TIM-1 Fc-Fusion Protein

Cat No: Pr00227-1.9

Product Summary

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

Protein: Mouse TIM-1

Fc domain: Mouse IgG1

Structure / Form: Disulfide-linked homodimer

Species: Mouse

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

Host: HEK293

UniProt Accession Number: Q5QNS5

Alternative Description: Hepatitis A virus cellular receptor 1 homolog; HAVcr-1; Kidney injury molecule 1; KIM-1; T cell immunoglobulin and mucin domain-containing protein 1; TIMD-1; T cell membrane protein 1; T-cell immunoglobulin mucin receptor 1; TIM-1; TIM-1-Ig; TIM-1-Fc chimera; TIM-1 (Fc tag)

Published Application(s):

Tested Applications(s): ELISA, SPR

Activity: May play a role in T-helper cell development and the regulation of asthma and allergic diseases. Receptor for TIMD4. May play a role in kidney injury and repair (By similarity) [Uniprot].

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.

SDS PAGE Purity: >95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.

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

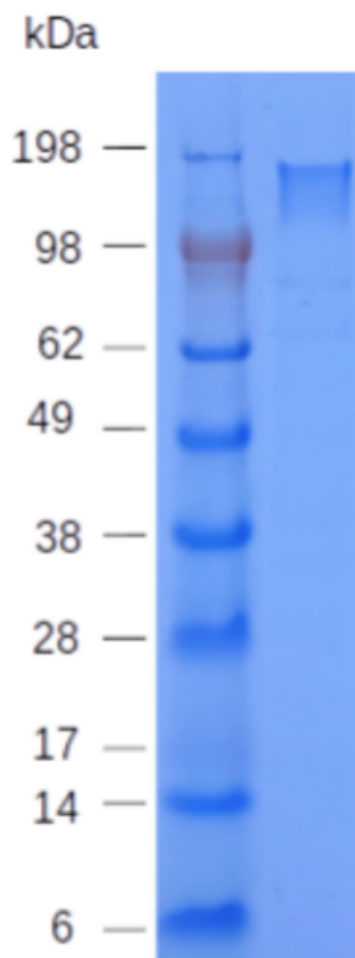
Fc-Fusion Sequence (monomer)

VEVKGVVGHVPTLPCTYSTYRGITTTWGRGQCPSSACQNTLIWTNGHRVITYQKSSRYNLKGHISEGDVSLTIENSVE
SDSGLYCCRVEIPGWFNDQKVTFSLQVKPEIPTRPPTRPTTTRPTATGRPTTISTRSTHVPTSIRVSTSTPPTSTHTWTH
KPEPTTFCPHETTAEVTGIPSHTPTDWNGTVTSSGDTWSNHTEAIPPGKPQKNPTKGGGGSVPRDQGCKPCICTVP
EVSSVFIFPPKPKDVLITLTPKVTCVVDISKDDPEVQFSWFVDDVEVHTAQTKPREEQINSTFRSVSELPIMHQDWLN
GKEFKCRVNSAAFPAPIEKTISKTKGRPKAPQVYTIPPPKEQMAKDKVSLTCMITNFFPEDITVEWQWNGQPAENYKNT
QPIMDTDGSYFVYSKLVQKSNWEAGNTFTCSVLHEGLHNHHTEKSLSHSPGKHHHHHH

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

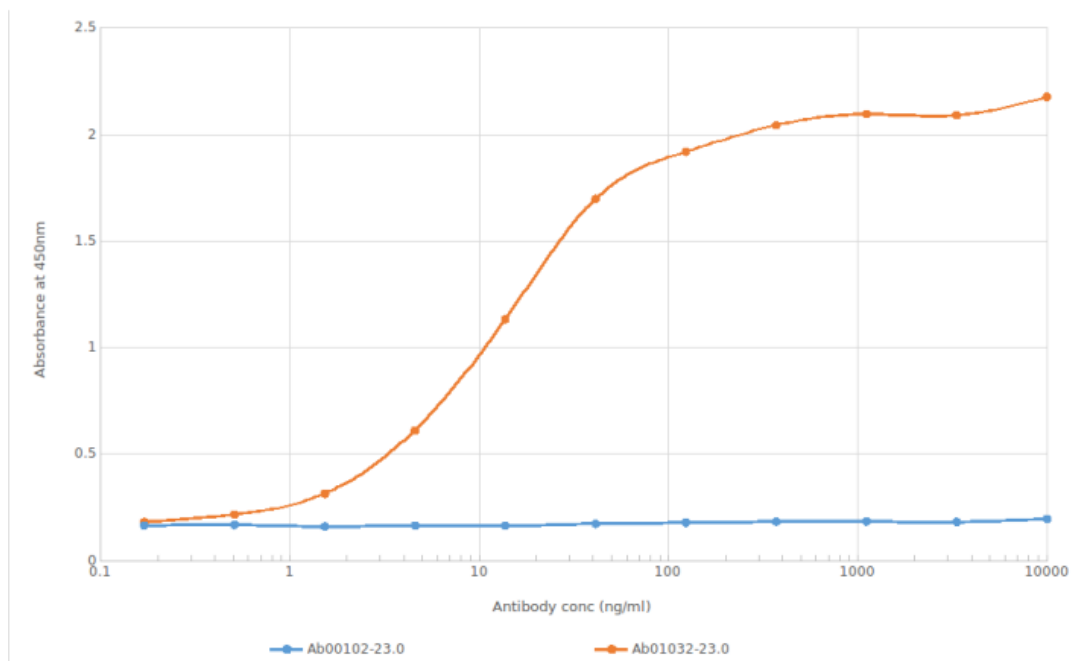
Calculated Molecular weight (dimer): 100369 Da

Extinction coefficient: 150070 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).

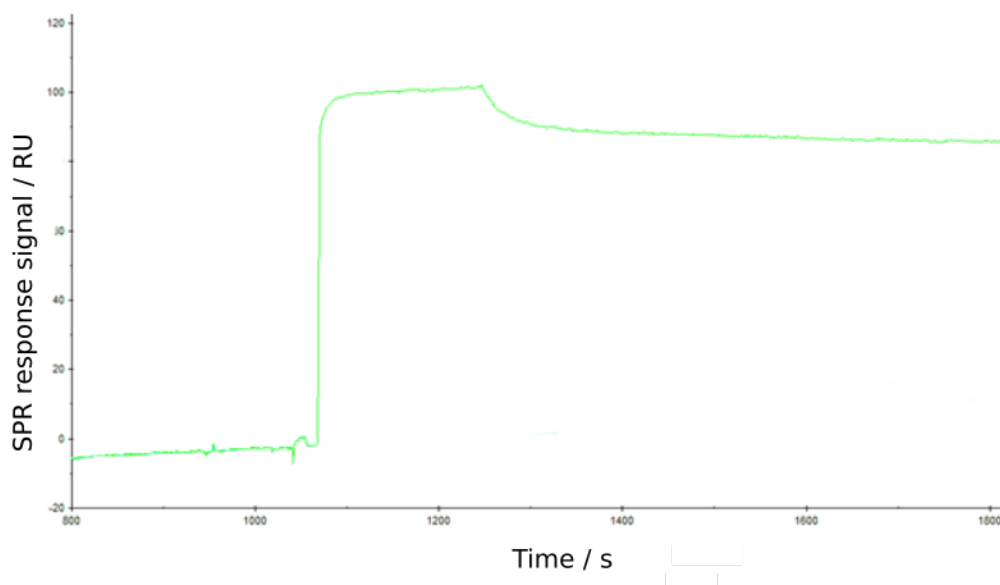


TIM-1 (Pr00227-1.9) SDS-PAGE. Pr00227-1.9 under non-reducing conditions resolved by SDS-PAGE and stained using Coomassie-Blue.

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ELISA of anti-TIM-1 antibody on TIM-1-Fc fusion protein. Binding curves of the rabbit chimeric version of the anti-TIM-1 antibody 3B3 (Ab01032-23.0; red line) and isotype control (Ab00102-23.0, anti-Fluorescein; blue line) to an ELISA plate coated with mouse TIM-1-Fc fusion protein (Pr00227-1.9) at a concentration of 5 $\mu\text{g/ml}$. A 3-fold serial dilution from 10000 to 0.17 ng/ml was performed using Ab01032-23.0. For signal detection, a 1:4000 dilution of anti-rabbit IgG1 HRP (BioRad) antibody was used.



Surface plasmon resonance (SPR) sensorgram anti-TIM-1 (Ab01032) 3B3 binding to TIM-1 Fc-fusion protein. Binding of mouse TIM-1 Fc-fusion protein (Pr00227-1.9) to immobilised the rabbit IgG chimeric version of 3B3 (Ab01032-23.0). Pr00227-1.9 was injected at a concentration of 5 ng/mL and allowed to associate with Ab01032-23.0 between 1080s and 1250s, before a dissociation phase between 1250s and 1800s. Pr00227-1.9 showed rapid binding to Ab01032-23.0 and following ligand removal remained strongly bound. This suggests that Ab01032-23.0 has a very high affinity for Pr00227-1.9.

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