



Recombinant Human PTPRC Fc-Fusion Protein

Cat No: Pr00178-10.9

Product Summary

Description: Recombinant human PTPRC Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

Protein: Human PTPRC

Fc domain: Human IgG1

Structure / Form: Disulfide-linked homodimer

Species: Human

Construct Design Note(s): The extracellular domain of PTPRC has been fused to the Fc domain of human IgG1.

Host: HEK293

UniProt Accession Number: P08575

Alternative Description: Receptor-type tyrosine-protein phosphatase, Leukocyte common antigen, L-CA, T200, CD45; PTPRC-Ig; PTPRC-Fc chimera; PTPRC (Fc tag)

Published Application(s):

Tested Applications(s):

Activity: Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. Dephosphorylates LYN, and thereby modulates LYN activity (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)

QSPTPSPTGLTTAKMPSVPLSSDPLPHTHTAFSPASTFERENDFSETTTSLSPDNTSTQVSPDSLNASAFNTTGVS
QTPHLPHTADSQTSPSAGTDTQTFSGSAANAKLNPTPGSNAISDVPGERSTASTFPTDPVSPLTTTTLSLAHHSSAALPAR
TSNTTITANTSDAYLNASETTTLSPSGSAVISTTTIATTPSKPTCDEKYANITVDYLYNKETKLFTAKLNVNENVECGNNTC
TNNEVHNLTECKNASVSISHNSCTAPDKTLILDVPPGVEKFQLHDCTQVEKADTTICLKWKNIETFTCDTQNITYRFQCG
NMIFDNKEIKLENLEPEHEYKCDSEILYNNHKFTNASKIIKTDFGSPGEPQIIFCRSEAAHQGVITWNPPQRSFHNFTLCYI
KETEKDCNLNDKNLIKDYDLQNLKPYTKYVLSLHAYIIAKVQRNGSAAMCHFTTKSAPPSQVWNMTVSMSTSDNSMHVVC
RPPRDRNGPHERYHLEVEAGNTLVRNESHKNCDFRVKDLQYSTDYTFKAYFHNGDYPGEPFILHHSTSYNSKGGGGS
GGGGSGGGGSEPKSQDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDG
VEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK
NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSVMHEALHNHYT
QKLSLSLSPGHHHHHH

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

Calculated Molecular weight (dimer): 177031 Da

Extinction coefficient: 160760 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).

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