

Product Information

MemDX™ Membrane Protein Human PTPRC (Protein tyrosine phosphatase receptor type C) for Antibody Discovery

Cat. No.: **MP1320J**

This product is for research use only and is not intended for diagnostic use.

This product is a 63 kDa Human PTPRC membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

PTPRC

Protein Length

Partial (26-577aa)

Protein Class

Druggable Genome, ES Cell Differentiation/IPS, Phosphatase, Transmembrane

Molecular Weight

63 kDa

TMD

1

Sequence

MTMYLWLKLLAFGFAFLDTEVFVTGQSPTPSPTGLTTAKMPSVPLSSDPLPHTHTAFSPASTFERENDFS
ETTTSLSPDNTSTQVSPDSLNASAFNTTGVSSTQTPHLPHTADSQTPSAGTDTQTFSGSAANAKLNPTP
GSNAISDVPGERSTASTFPTDPVSPLTTTSLAHSSAALPARTSNTTITANTSDAYLNASETTTLSPSG
SAVISTTTIATTPSKPTCDEKYANITVDYLYNKETKLFTAKLNVNENVECGNNTCTNNEVHNLTECKNAS
VSISHNSCTAPDKTLILDVPPGVEKFQLHDCTQVEKADTTICLKWKNIETFTCDTQNIITYRFQCGNMIFD
NKEIKLENLEPEHEYKCDSEILYNNHKFTNASKIIKTDGFGSPGEPQIIFCRSEAAHQGVITWNPPQRSFH
NFTLCYIKETEKDCLNLDKNIKYDLQNLKPYTKYVLSLHAYIIAKVQRNGSAAMCHFTTKSAPPSQVWN
MTVSMTSDNSMHVKCRPPRDRNGPHERYHLEVEAGNTLVRNESHKNCDFRVKDLQYSTDYTFKAYFHNGD
YPGEPFILHHSTSYNSKALIAFLAFLIIVTSIALLVLYKIYDLHKKRSCNLDEQQELVERDDEKQLMNV
EPIHADILLETYKRKIADEGRLFLAEFQSIPRVFSKFPIKEARKPFNQKNRYVDILPYDYNRVELSEIN
GDAGSNYINASYIDGFKEPRKYIAAQGPRDETVDDFWRMIWEQKATVIVMVTRCEEGRNKNKCAEYWPSME
EGTRAFGDDVVVKINQHKRCPDYIIQKLNIVNKKKATGREVTHIQFTSWPDHGVDPEDPHLLLKLRRRVNA
FSNFFSGPIVVHCSAGVGRGTGYIGIDAMLEGLEAENKVDVYGYVVKLRRQRCLMVQVEAQYILIHQALV
EYNQFGETEVLNSELHPYLHNMKKRDPPEPSPLEAEFQRLPSYRSWRTQHIGNQEENKSKNRNSNVIPY
DYNRVPLKHELEMSKESEHSDSDSDSDSEEPSKYINASFIMSYWKPEVMIAAQGPLKETIGDFWQMI
FQRKVKVIVMLTELKHGDQEICAQYWGEKGQTYGDIEVDLKDTDKSSTYTLRVFELRHSKRKDSRTVYQY
QYTNWSVEQLPAEPKELISMIQVVKQKLQKNSSEGNKHHKSTPLLIHCRDGSQQTGIFCALLNLLES
AE TEEVVDIFQVVKALRKARPGMVSTFEQYQFLYDVIASSTYPAQNGQVKKNNHQEDKIEFDNEVDKVKQDAN
CVNPLGAPEKLPEAKEQAEGSEPTSGTEGPEHSVNGPASPALNQQS

Product Description

Expression Systems

HEK293

Tag

C-DDK/His

Form

Liquid

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

PBS, pH7.4, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

PTPRC

Full Name

Protein tyrosine phosphatase receptor type C

Introduction

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported.

Alternative Names

LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180

Gene ID

[5788](#)

UniProt ID

[P08575](#)