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## **Datasheet**

## PTPRC monoclonal antibody (M12), clone 3D3

Catalog Number: H00005788-M12

Regulatory Status: For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against a partial recombinant PTPRC.

Clone Name: 3D3

GST tag alone is 26 KDa.

## Sequence:

PGEPQIIFCRSEAAHQGVITWNPPQRSFHNFTLCYIKE TEKDCLNLDKNLIKYDLQNLKPYTKYVLSLHAYIIAKVQ RNGSAAMCHFTTKSAPPSQVWNMTVSMTSDNSMHV KCRPPRDRNGPHERYHLEVEAGNTLVRNESHKNCDF RVKDLQYSTDYTFKAYFHNGDYPGEPFILHHST

Host: Mouse

Reactivity: Human

Applications: ELISA, WB-Re

(See our web site product page for detailed applications

information)

Protocols: See our web site at

http://www.abnova.com/support/protocols.asp or product

page for detailed protocols

Isotype: IgG2a Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to

avoid repeated freezing and thawing.

Entrez GenelD: 5788

Gene Symbol: PTPRC

Gene Alias: B220, CD45, CD45R, GP180, LCA, LY5,

T200

Gene Summary: 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, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This gene is specifically expressed in hematopoietic cells. 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. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq]