

## Datasheet

### PTPRC monoclonal antibody, clone BRA-55

**Catalog Number:** MAB5305

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against native PTPRC.

**Clone Name:** BRA-55

**Immunogen:** Native purified PTPRC from REH6 cell line.

**Host:** Mouse

**Reactivity:** Human

**Applications:** IHC-Fr, IHC-P, IP  
(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

**Specificity:** The monoclonal antibody LCA (CD45) is a useful marker to differentiate between lymphomas and carcinomas. Since this monoclonal gives a pronounced staining on formalin fixed paraffin embedded cells it is very useful in routine pathology. Reactive with 170-220 kD cell surface glycoprotein(s).

**Form:** Liquid

**Isotype:** IgG1

**Recommend Usage:** Immunohistochemistry (1:10-1:20)  
The optimal working dilution should be determined by the end user.

**Storage Buffer:** In ascites (0.09% sodium azide)

**Storage Instruction:** Store at 4°C. For long term storage store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 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]