

# Mouse Anti-Human PTPRC Monoclonal Antibody

## Mouse, Monoclonal (PTPRC)

Cat. No. DMAB2279MH

Lot. No. (See product label)

### PRODUCT INFORMATION

**Product Overview:** MAb to CD45; Monoclonal Antibody to Human CD45

**Antigen Description:** Protein tyrosine phosphatase, receptor type, C also known as PTPRC is an enzyme that, in humans, is encoded by the PTPRC gene. PTPRC is also known as CD45 antigen (CD stands for cluster of differentiation), which was originally called leukocyte common antigen.

**Immunogen:** Ficoll-Triosil-separated human peripheral blood mononuclear cells

**Isotype:** IgG1

**Clone:** A290-11242

**Specificity:** Human CD45

**Format:** Purified, Liquid

**Host animal:** Mouse

**Source:** Ascites

**Application:** Suitable for use in FACS and Immunohistochemistry. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**Purification:** >90% pure (SDS-PAGE). Protein A chromatography

**Affinity Constant:** Not determined

### PACKAGING

**Concentration:** 0.84mg/ml (OD280nm, E<sup>0.1%</sup> = 1.4)

**Buffer:** 10mM Sodium phosphate, pH 7.4 containing 150mM Sodium chloride

**Preservative:** 0.1% Sodium azide

**Storage:** Short term (up to 7 days) store at 2-8°C. Long term, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

**Warning:** This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1–1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

### ANTIGEN GENE INFORMATION

**Gene Name:** [PTPRC protein tyrosine phosphatase, receptor type, C \[Homo sapiens\]](#)

**Official Symbol:** PTPRC

**Synonyms:** receptor-type tyrosine-protein phosphatase C; CD45 antigen; glycoprotein; T200 glycoprotein; LCA; LY5; OTTHUMP00000033813; OTTHUMP00000033816; OTTHUMP00000033817; OTTHUMP00000038574; OTTHUMP00000038575; leukocyte-common antigen; T200 leukocyte common antigen; protein tyrosine phosphatase, receptor type, c polypeptide; Leukocyte common antigen; EC 3.1.3.48; PTPRC; protein tyrosine phosphatase, receptor type, C; B220; CD45; L-CA; T200; CD45R; GP180

**GeneID:** [5788](#)

**mRNA Refseq:** [NM\\_002838](#)

**Protein Refseq:** [NP\\_002829](#)

**MM:** [151460](#)

**UniProt ID:** P08575

**Chromosome Location:** 1q31-q32

**Pathway:** Axon guidance, organism-specific biosystem; BCR signaling pathway, organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; EPO Receptor Signaling, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem; Primary immunodeficiency, conserved biosystem; Semaphorin interactions, organism-specific biosystem; T cell receptor signaling pathway, conserved biosystem

**Function:** hydrolase activity; protein binding; protein kinase binding; protein tyrosine phosphatase activity; transmembrane receptor protein tyrosine phosphatase activity

### REFERENCES

- O'Hara L et al. Androgen receptor expression in the caput epididymal epithelium is essential for development of the initial segment and epididymal spermatozoa transit. *Endocrinology* 152: 718-729 (2011).
- Biscetti F et al. High-mobility group box-1 protein promotes angiogenesis after peripheral ischemia in diabetic mice through a VEGF-dependent mechanism. *Diabetes* 59: 1496-1505 (2010).

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