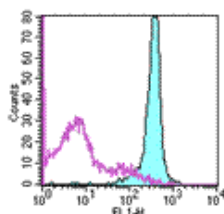


## Anti-Rat CD45.2 Purified

Catalog Number: 14-0450

Also Known As: Ly5.2

RUO: For Research Use Only



Staining of rat splenocytes with 0.06 µg Mouse IgG1 Isotype Control Purified (cat.14-4714) (open histogram) or 0.06 µg Anti-Rat CD45.2 Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat.11-4011). Total viable cells were used for analysis.

### Product Information

Contents: Anti-Rat CD45.2 Purified

**REF** Catalog Number: 14-0450

Clone: HIS41

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

### Description

The HIS41 monoclonal antibody reacts with all isoforms of the rat CD45 molecule, also known as Leukocyte Common Antigen (LCA). CD45 is expressed by all hematopoietic cells excluding mature erythrocytes and platelets. The cytoplasmic portion of CD45 has tyrosine phosphatase enzymatic activity and plays an important role in signaling and activation of lymphocytes. HIS41 reacts with strains expressing the RT7.2 alloantigen (BUF, LOU, and WF), but not strains expressing the RT7.1 alloantigen (ACI, AO, BN, DA, DZB, LEW, MAXX, PVG, SHR, and WAG).

### Applications Reported

The HIS41 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections.

### Applications Tested

The HIS41 antibody has been tested by flow cytometric analysis of LOU rat splenocyte suspensions. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Kampinga, J., F.G.M. Kroese, G.H. Pol, D. Opstelten, H.G. Seijzen, J.H.A. Boot, B. Roser, P. Nieuwenhuis, and R. Aspinall. 1990. RT7-defined alloantigens in rats are part of the leukocyte common antigen family. *Scand. J. Immunol.* 31:699-710.

Giezeman-Smits, K. M., A. Gorter, R. L. P. van Vlierberghe, J. D. H. v. Eendenburg, A. M. M. Eggermont, G. J. Fleuren, P. J. K. Kuppen. 1999. The Regulatory Role of CD45 on Rat NK Cells in Target Cell Lysis. *J. Immunol.* 163:71-76.

Butcher, G.W. 1987. A list of monoclonal antibodies specific for alloantigens of the rat. *J. Immunogenet.* 14:163-176.

### Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

14-4714 Mouse IgG1 K Isotype Control Purified

17-4317 Streptavidin APC

