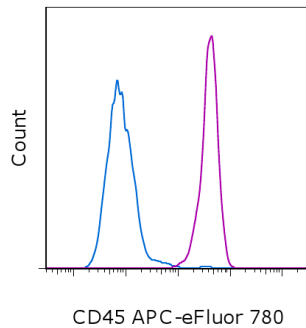


Anti-Rat CD45 APC-eFluor[®] 780

Catalog Number: 47-0461

Also known as: Leukocyte Common Antigen

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of rat splenocytes with 0.5 ug of Mouse IgG1 K Isotype Control APC-eFluor[®] 780 (cat. 47-4714) (blue histogram) or 0.5 ug of Anti-Rat CD45 APC-eFluor[®] 780 (purple histogram). Total viable cells were used for analysis.

Product Information



Contents: Anti-Rat CD45 APC-eFluor[®] 780

Catalog Number: 47-0461

Clone: OX1

Concentration: 0.2 mg/mL

Host/Isotype: Mouse IgG1, kappa



Formulation: aqueous buffer, 0.09% sodium

azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.



Batch Code: Refer to vial



Use By: Refer to vial



Contains sodium azide

Description

This OX1 monoclonal antibody recognizes a non-polymorphic determinant of rat CD45, which is also known as the leukocyte common antigen. CD45 is expressed on all hematopoietic cells except erythrocytes and platelets. This type I transmembrane protein tyrosine phosphatase exists as a variety of different isoforms due to alternative splicing.

Applications Reported

This OX1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This OX1 antibody has been tested by flow cytometric analysis of rat splenocytes. This can be used at less than or equal to 1 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

APC-eFluor[®] emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: Tandem is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Not for further distribution without written consent.

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References

Dahlke MH, Lauth OS, Jäger MD, Roeseler T, Timrott K, Jackobs S, Neipp M, Wonigeit K, Schlitt HJ. In vivo depletion of hematopoietic stem cells in the rat by an anti-CD45 (RT7) antibody. *Blood*. 2002 May 15;99(10):3566-72. (OX1, FC)

Mojcik CF, Greiner DL, Goldschneider I, Lubaroff DM. Monoclonal antibodies to RT7 and LCA antigens in the rat: cell distribution and segregation analysis. *Hybridoma*. 1987 Oct;6(5):531-43. (OX1)

Hart DN, Fabre JW. Demonstration and characterization of Ia-positive dendritic cells in the interstitial connective tissues of rat heart and other tissues, but not brain. *J Exp Med*. 1981 Aug 1;154(2):347-61. (OX1, IHC-F)

Sunderland CA, McMaster WR, Williams AF. Purification with monoclonal antibody of a predominant leukocyte-common antigen and glycoprotein from rat thymocytes. *Eur J Immunol*. 1979 Feb;9(2):155-9. (OX1)

Related Products

00-4222 Flow Cytometry Staining Buffer

47-4714 Mouse IgG1 K Isotype Control APC-eFluor® 780 (P3.6.2.8.1)