


Anti-Human CD45RB Purified


Catalog Number: 14-9458

Also known as: LCA

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

Product Information

 **Contents:** Anti-Human CD45RB Purified
Catalog Number: 14-9458
Clone: PD7/26
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

Description

The monoclonal antibody PD7/26 recognizes CD45RB, which is an isoform of the Leukocyte Common Antigen (LCA) also known as CD45. CD45RB is a protein tyrosine phosphatase receptor that is present on most hematopoietic cells and absent on non-hematopoietic cells. Expression of CD45RB is more restricted than CD45 and can only be found on T cell subsets, B, NK, and myeloid cells. Regulatory T cells (Tregs) have been shown to express low levels of CD45RB, which may correlate with increased migration to sites of infection. In contrast, high CD45RB expression results in IL-2 and IFN gamma production instead of IL-4 in vitro.

Applications Reported

This PD7/26 antibody has been reported for use in Flow Cytometric Analysis, Western Blotting, Immunohistochemical Staining of Formalin-Fixed Paraffin Embedded Tissue Sections, and Immunocytochemistry.

Applications Tested

This PD7/26 antibody has been tested by immunohistochemistry on formalin-fixed paraffin embedded human tonsil using low pH antigen retrieval. This can be used at less than or equal to 5 ug/mL. This PD7/26 antibody has also been tested by western blot at 5 ug/mL and by flow cytometric analysis on human peripheral blood cells at 0.25 ug/test. A test is defined as the amount (ug)/test 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.

References

Khalidi HS, Singleton TP, Weiss SW. Inflammatory malignant fibrous histiocytoma: distinction from Hodgkin's disease and non-Hodgkin's lymphoma by a panel of leukocyte markers. *Mod Pathol.* 1997 May;10(5):438-42.

Horgan KJ, Tanaka Y, Luce GE, van Seventer GA, Nutman TB, Shaw S. CD45RB expression defines two interconvertible subsets of human CD4+ T cells with memory function. *Eur J Immunol.* 1994 May;24(5):1240-3.

Craig W, Poppema S, Little MT, Dragowska W, Lansdorp PM. CD45 isoform expression on human haemopoietic cells at different stages of development. *Br J Haematol.* 1994 Sep;88(1):24-30.

Dianzani U, Redoglia V, Malavasi F, Bragardo M, Pileri A, Janeway CA Jr, Bottomly K. Isoform-specific associations of CD45 with accessory molecules in human T lymphocytes. *Eur J Immunol.* 1992 Feb;22(2):365-71.

Pulido R, Cebrián M, Acevedo A, de Landázuri MO, Sánchez-Madrid F. Comparative biochemical and tissue distribution study of four distinct CD45 antigen specificities. *J Immunol.* 1988 Jun 1;140(11):3851-7.

Related Products

00-4954 20X TBS Wash Buffer for IHC/ICC
00-4955 IHC Antigen Retrieval Solution – Low pH (10X)
14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com •
info@ebioscience.com