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- Mindermengenzuschlag
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Technically
Speaking

CEDARLANE[®] 
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Human CD45R
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL7606AP	Purified	200ug	1.0 mg/ml	CLCR2B00
CL7606B	Biotin	100ug	0.1 mg/ml	CLCR2B15
CL7606F	FITC	100ug	0.1 mg/ml	CLCR2B01
CL7606PE	PE	50ug	0.1 mg/ml	CLCR2B04
CL7606APC	APC	100µg	0.1 mg/ml	CLCR2B05
CL7606NA	NA	1.0mg	1mg/ml	CLCR2B00
CL7606AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype: Rat IgG_{2b}

DESCRIPTION:

Cedarlane's anti-Human CD45R monoclonal antibody specifically binds to human CD45R. This is the longest isoform of the human leucocyte common antigen, CD45. CD45 is a family of single-chain transmembrane glycoproteins with protein phosphatase activity involved in transmembrane signaling. The molecular weight of CD45R is dependent on its level of glycosylation, which varies from its sources of expression: 200 kDa from T cells, 220 kDa from B cells as well as certain activated T cells and other antigen presenting cells. Recognition of antigen may be dependent on expression levels of sialic acid.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

Biotin, FITC, PE, APC and AF488: Biotin/FITC/PE/APC/AF488 conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE PE, APC and AF488 conjugates. For long term storage (**Purified, Biotin, FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

APPLICATIONS:

This antibody is suitable for use in Western Blot and Flow Cytometry.

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An ISO 9001:2000 and ISO 13485:2003
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e-mail: service@cedarlanelabs.com

SPECIFICATIONS:

Clone: YTH 80.103

Hybridoma Production:

Immunization: Rat monoclonal antibody raised against human CD45R

Specificity: This antibody is specific for human CD45R.

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration: 1×10^6 cells per tests

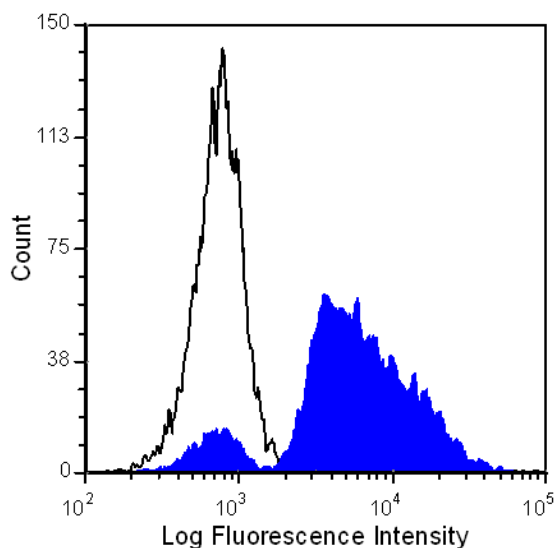
Antibody Concentration Used: $1.0 \mu\text{g}/10^6$ cells

Cell Source

Human PBLs

Percentage of cells stained above control:

79.1%



Human peripheral blood lymphocytes were stained with anti-CD45R (clone: YTH 80.103) (filled histogram) or Rat IgG2b isotype control (open histogram).

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1. 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. Feb; 22(2):365-71. 1992.
2. Hale G, Clark M, Waldmann H. **Therapeutic potential of rat monoclonal antibodies: isotype specificity of antibody-dependent cell-mediated cytotoxicity with human lymphocytes.** J Immunol. May; 134(5):3056-61. 1985.

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