

TECHNICAL DATA SHEET

CyFlow™ CD45R FITC Anti-Hu/Ms; Clone RA3-6B2



BY978670

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD45R				
Alternative Names	_				
Clone	RA3-6B2				
Clonality	monoclonal				
Format	FITC				
Host / Isotype	Rat / IgG2a				
Species Reactivity	Human Mouse, Cat				
Negative Species Reactivity	_				
Quantity [Concentration]	0.1 mg [0.5 mg/ml]				
Immunogen	Abelson murine leukemia virus-induced pre-B tumor cells				

Specificity

The rat monoclonal antibody RA3-6B2 recognizes an epitope on CD45R antigen, which is expressed at all developmental stages of B cells, including activated B cells, but also on subsets of NK and T cells. T cells detected by this antibody are supposed to be in activated state.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: <u>info@sysmex-partec.com</u>

Rev 1.0 Date: 2016-05-26 EN CyFlow™ CD45R FITC



Application

The reagent is designed for Flow Cytometry analysis. Working concentrations should be determined by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD45R (B220) is a receptor-type protein tyrosine phosphatase glycoprotein. It is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases, promotes cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis. CD45R expression also identifies a subset of murine bone marrow cells able to form osteoclast-like cells.

References

- Watanabe Y, Akaike T: Activation signal induces the expression of B cell-specific CD45R epitope (6B2) on murine T cells. Scand J Immunol. 1994 May; 39(5):419-25. < PMID: 7514808 >
- Rada C, Ehrenstein MR, Neuberger MS, Milstein C: Hot spot focusing of somatic hypermutation in MSH2-deficient mice suggests two stages of mutational targeting. Immunity. 1998 Jul; 9(1):135-41.
 < PMID: 9697843 >
- Tsurui H, Nishimura H, Hattori S, Hirose S, Okumura K, Shirai T: Seven-color fluorescence imaging of tissue samples based on Fourier spectroscopy and singular value decomposition.
 J Histochem Cytochem. 2000 May; 48(5):653-62. < PMID: 10769049 >
- Cappione AJ, Pugh-Bernard AE, Anolik JH, Sanz I: Lupus IgG VH4.34 antibodies bind to a 220-kDa glycoform of CD45/B220 on the surface of human B lymphocytes. J Immunol. 2004 Apr 1; 172(7):4298-307. < PMID: 15034044 >

Contact Information:

Rev 1.0 Date: 2016-05-26 EN CyFlow™ CD45R FITC



- Montecino-Rodriguez E, Leathers H, Dorshkind K: Identification of a B-1 B cell-specified progenitor.
 Nat Immunol. 2006 Mar; 7(3):293-301. < PMID: 16429139 >
- Rothaeusler K, Baumgarth N: Evaluation of intranuclear BrdU detection procedures for use in multicolor flow cytometry. Cytometry A. 2006 Apr; 69(4):249-59. < PMID: 16538653 >
- Lochhead RB, Sonderegger FL, Ma Y, Brewster JE, Cornwall D, Maylor-Hagen H, Miller JC, Zachary JF, Weis JH, Weis JJ: Endothelial cells and fibroblasts amplify the arthritogenic type I IFN response in murine Lyme disease and are major sources of chemokines in Borrelia burgdorferi-infected joint tissue.
 J Immunol. 2012 Sep 1; 189(5):2488-501. < PMID: 22851707 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.								

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: <u>info@sysmex-partec.com</u>

Rev 1.0 Date: 2016-05-26 EN CyFlow™ CD45R FITC