	Anti-Mouse CD45 Antibody, Clone 30-F11, PE		STENCELL ^M
Antibodies	Rat monoc against mo	clonal IgG2b antibody ouse CD45, PE-conjugated	Scientists Helping Scientists [™] WWW.STEMCELL.COM
			TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713
Catalog #60030PE #60030PE.1	200 µg	200 μg 0.2 mg/mL 50 μg 0.2 mg/mL	INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM
	50 µg		FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

Product Description

The 30-F11 antibody reacts with an extracellular epitope found on all isoforms and both alloantigens (CD45.1 and CD45.2) of mouse CD45, a type I transmembrane glycoprotein expressed on the surface of most hematopoietic cells except mature erythrocytes, platelets and plasma cells; expression of CD45 is lost during differentiation of these cell types. CD45 is a member of the protein tyrosine phosphatase family and functions in a number of immunoregulatory processes, including cell activation, growth, differentiation and oncogenic transformation. The large cytoplasmic portion of CD45 contains two tyrosine phosphatase domains, one which is enzymatically active, that are involved in modulating the function of intracellular substrates such as the Src kinases Lck and Fyn. Several isoforms of CD45 have been identified, the expression of which differs according to cell type and functional status. Alternative splicing of three exons (4, 5, 6) encoding the extracellular RA, RB and RC polypeptide sequences gives rise to up to 8 isoforms with molecular masses in the range of 180 - 240 kDa.

Target Antigen Name:	CD45		
Alternative Names:	LCA, Leukocyte common antigen, Ly-5, Protein tyrosine phosphatase receptor type C, PTPRC, T200		
Gene ID:	19264		
Species Reactivity:	Mouse		
Host Species:	Rat (LOU)		
Clonality:	Monoclonal		
Clone:	30-F11		
Isotype:	IgG2b, kappa		
Immunogen:	Mouse thymus or spleen		
Conjugate:	PE		

Applications

Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse CD19 Positive Selection Kit II (Catalog #18954).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is $\leq 0.25 \ \mu g$ per 1 x 10 ⁶ cells in 100 μL volume. It is recommended that the antibody be titrated for optimal performance for each application.

Antibodies



Data



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD45 Antibody, Clone 30-F11, PE (filled histogram) or Rat IgG2b, kappa Isotype Control Antibody, Clone RTK4530, PE (Catalog #60077PE) (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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