

Pacific Blue™ anti-rat CD45

Catalog # / Size: 1611125 / 25 µg
1611130 / 100 µg

Clone: OX-1

Isotype: Mouse IgG1, κ

Reactivity: Rat

Concentration: NULL

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 microg per million cells in 100 microL volume or 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation¹, immunofluorescence microscopy (acetone fixed, ammonium-thiocyanate separated epidermal sheets)², immunohistochemistry of acetone³-, isopentane-⁴, PLP⁵-, and n-hexane⁶ fixed frozen sections and paraffin-embedded sections^{7,8}, and partial inhibition of NK cell lysis of syngeneic tumor cell lines¹.

Description: CD45 is a 180-220 kD protein also known as leukocyte common antigen (LCA). It is a protein tyrosine phosphatase with multiple isoforms differing as a result of alternative splicing of the extracellular domain and glycosylation. CD45 is expressed on all hematopoietic cells except erythrocytes and platelets; isoform expression depends on cell type, activation state, and cell maturation. CD45 functions in signal transduction through T and B cell antigen receptors. CD45 has been shown to interact with various proteins including galectin-1, CD2, CD3, and CD4. The OX-1 antibody has been shown to partially inhibit NK cell-mediated lysis of syngeneic tumor cells *in vitro*.