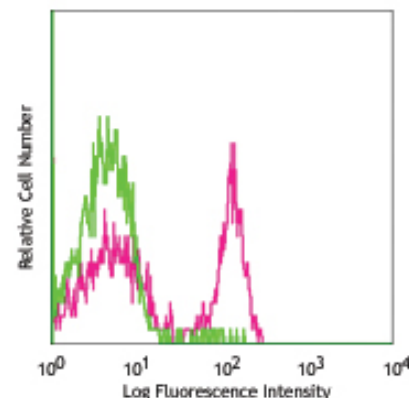


# Product Data Sheet

## Purified anti-rat CD45RA

**Catalog # / Size:** 202301 / 100 µg  
**Clone:** OX-33  
**Isotype:** Mouse IgG1, κ  
**Immunogen:** Leukocyte common antigen purified from rat splenocytes  
**Reactivity:** Rat  
**Preparation:** The antibody was purified by affinity chromatography.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** 0.5 mg/ml  
**Storage:** The antibody solution should be stored undiluted at 4°C.



LOU rat splenocytes stained with purified OX-33, followed by anti-mouse IgG FITC

## Applications:

**Applications:** FC - Quality tested  
 IHC - Reported in the literature

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

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections<sup>1</sup>.

**Application References:** 1. Smith T, *et al.* 2000. *Nature Med.* 6:62. (IHC)

**Description:** CD45 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. CD45RA is one of the CD45 isoforms with the molecular weight of 200-220 kD. It is expressed almost exclusively on B cells. 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.

**Antigen References:** 1. Sunderland CA, *et al.* 1979. *Eur. J. Immunol.* 9:155.  
 2. Woolett GR, *et al.* 1985. *Eur. J. Immunol.* 15:168.

### Related Products:

**Product**  
 Purified Mouse IgG1, κ Isotype Ctrl  
 APC Goat anti-mouse IgG (minimal x-reactivity)  
 FITC Goat anti-mouse IgG (minimal x-reactivity)  
 HRP Goat anti-mouse IgG (minimal x-reactivity)  
 PE Goat anti-mouse IgG (minimal x-reactivity)  
 Cell Staining Buffer

**Clone**  
 MOPC-21  
 Poly4053  
 Poly4053  
 Poly4053  
 Poly4053

**Application**  
 FC, ICFC, ICC, IF, IHC, IP, WB  
 FC  
 FC  
 ELISA, IHC, WB  
 FC  
 FC, ICC, ICFC



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