

Datasheet for ABIN376640
anti-CD45 antibody (PE-Cy7)



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1 Image

1 Publication

Overview

Quantity:	0.1 mg
Target:	CD45 (PTPRC)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD45 antibody is conjugated to PE-Cy7
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	T1M1 (Thy-1-c) cells
Clone:	I3-2-3
Isotype:	IgG2b
Specificity:	Mouse CD45 (all isoforms), Mr 180-240 kDa
Characteristics:	Rat Anti-Mouse CD45-PE/CY7
Purification:	Purified

Target Details

Target:	CD45 (PTPRC)
Alternative Name:	CD45 (PTPRC Products)
Background:	CD45 is the common leukocyte antigen and is expressed on all cells of hematopoietic origin

Target Details

except erythrocytes. CD45 exists as a number of different isoforms which result from alternative RNA splicing of exons 4, 5 and 6. The CD45 molecule has been implicated as playing a key role in thymic development and in antigen-driven proliferation of T cells.

Pathways:

[TCR Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [CXCR4-mediated Signaling Events](#), [BCR Signaling](#)

Application Details

Application Notes:

- **Applications:** FC - Quality tested , IHC-FS - Reported in literature , IP - Reported in literature
- **Working Dilutions:** Flow Cytometry FITC, BIOT, AF488, and PACBLU conjugates 1 g/106 cells PE, PE/TXRD, APC, SPRD, APC/CY7, PE/CY5.5, PE/CY7, 0.2 g/106 cells AF647, and AF700 conjugates For flow cytometry, the suggested use of these reagents is in a final volume of 100 L

Sample Volume:

1 mL

Restrictions:

For Research Use only

Handling

Concentration:

0.5 mg/mL

Buffer:

0.1 mg in 0.2 mL of PBS/Sodium azide

Preservative:

Sodium azide

Precaution of Use:

This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice:

Protect conjugated products from light.

Each reagent is stable for the period shown on the bottle label if stored as directed.

Storage:

4 °C

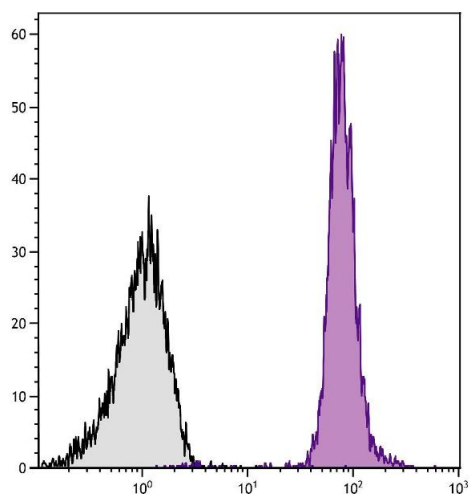
Storage Comment:

Store at 2-8°C

Publications

Product cited in:

Jiang, Zhang, Peng, Wang, Xu, Li: "miR-204 inhibits the osteogenic differentiation of mesenchymal stem cells by targeting bone morphogenetic protein 2." in: **Molecular medicine reports**, Vol. 21, Issue 1, pp. 43-50, (2020) ([PubMed](#)).



Flow Cytometry

Image 1. BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD45-PE/CY7.