



[Go to Product page](#)

Datasheet for ABIN6253052
anti-CD45 antibody (mFluor™540)

2 Images

Overview

Quantity:	100 tests
Target:	CD45 (PTPRC)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD45 antibody is conjugated to mFluor™540
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human T lymphocytes
Clone:	F10-89-4
Isotype:	IgG2a kappa
Characteristics:	The clone F10-89-4, a mouse monoclonal antibody, recognizes a hematopoietic cell surface antigen known as CD45 which is present on all human leukocytes including lymphocytes, monocytes, granulocytes, eosinophils, and basophils in peripheral blood. CD45 has a role in signal transduction, modifying signals from other surface molecules. The CD45 antibody has been reported to react weakly with mature circulating erythrocytes and platelets. The antibody recognizes the human leukocyte common antigen which is found on cells from spleen, lymph nodes, 83 % bone marrow cells, and granulocytes. The antigen recognized by F10-89-4 is a glycoprotein with a molecular weight of 190 kDa to 215 kDa.
Purification:	Purified

Product Details

Purity: >95 %

Grade: GMP Grade

Target Details

Target: CD45 (PTPRC)

Alternative Name: CD45 ([PTPRC Products](#))

Background: The clone F10-89-4, a mouse monoclonal antibody, recognizes a hematopoietic cell surface antigen known as CD45 which is present on all human leukocytes including lymphocytes, monocytes, granulocytes, eosinophils, and basophils in peripheral blood. CD45 has a role in signal transduction, modifying signals from other surface molecules. The CD45 antibody has been reported to react weakly with mature circulating erythrocytes and platelets. The antibody recognizes the human leukocyte common antigen which is found on cells from spleen, lymph nodes, 83 % bone marrow cells, and granulocytes. The antigen recognized by F10-89-4 is a glycoprotein with a molecular weight of 190 kDa to 215 kDa.

NCBI Accession: [NM_002838](#)

UniProt: [P08575](#)

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: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

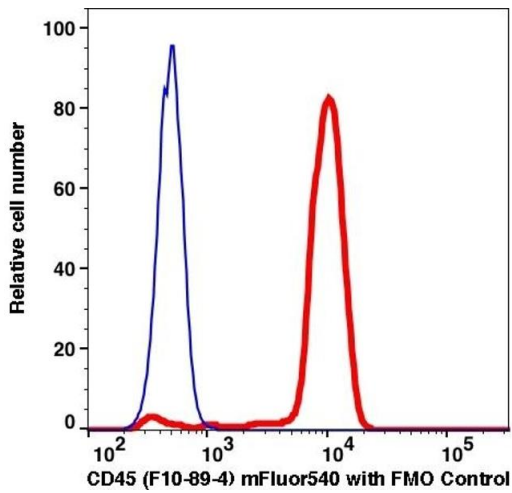
Format: Liquid

Buffer: PBS pH 7.2, 0.2 % (w/v) BSA, 0.09 % (w/v) 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.

Storage: 4 °C



Flow Cytometry

Image 1.

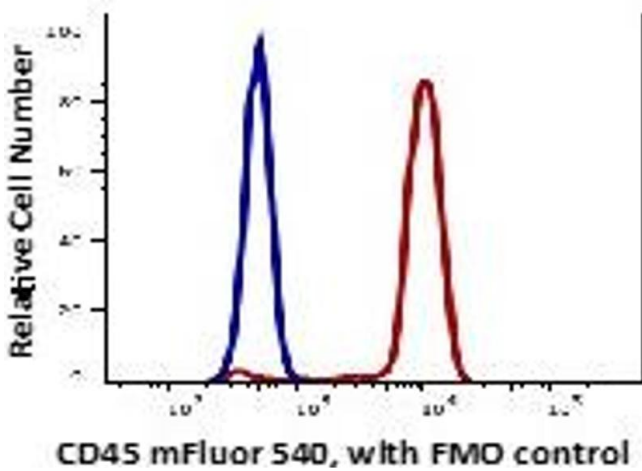


Image 2. Lymphocytes gated PBMCs stained with purified mouse anti-human CD45RA (clone OTH-74D4) followed by staining with Alexa Fluor488 conjugated secondary Goat anti-mouse IgG (H+L) polyclonal antibody (red histogram). Lymphocytes gated PBMCs stained with purified mouse IgG1 isotype control followed by staining with Alexa Fluor488 conjugated secondary Goat anti-mouse IgG (H+L) polyclonal antibody (Blue histogram).