

For Research Use Only

# FITC Plus Anti-Human CD44 (F10-44-2)

Catalog Number: FITC-65063

3 Publications



## Basic Information

Catalog Number:

FITC-65063

Size:

100 tests, 5 µl/test

Source:

Mouse

Isotype:

IgG2a, kappa

GenBank Accession Number:

BC004372

GeneID (NCBI):

960

ENSEMBL Gene ID:

ENSG00000026508

UNIPROT ID:

P16070

Full Name:

CD44 molecule (Indian blood group)

Calculated MW:

742 aa, 82 kDa

Purification Method:

Affinity purification

CloneNo.:

F10-44-2

Excitation/Emission maxima wavelengths:

495 nm / 524 nm

## Applications

Tested Applications:

FC

Cited Applications:

IF, FC

Species Specificity:

human

Cited Species:

human

## Background Information

CD44 is a type I transmembrane glycoprotein expressed on embryonic stem cells and in various levels on other cell types including connective tissues and bone marrow. CD44 expression is also upregulated in subpopulations of cancer cells and is recognized as a molecular marker for cancer stem cells (PMID: 29747682). It is a cell-surface receptor that mediates cell-cell and cell-matrix interactions through its affinity for hyaluronic acid (HA) and possibly also through its affinity for other ligands (PMID: 10694938). Adhesion with HA plays an important role in cell migration, tumor growth and progression. CD44 is also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuan Cao	35696325	ACS Nano	FC
Yanmei Huang	37380044	Free Radic Biol Med	IF
Chen Yuan	36852402	Open Life Sci	FC

## Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA.

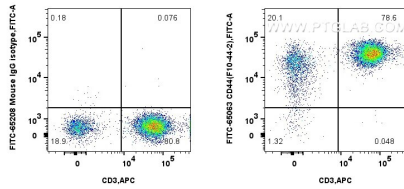
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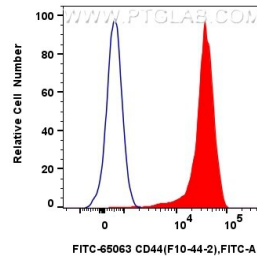
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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with APC Anti-Human CD3, and 5 ul FITC Plus Anti-Human CD44 (F10-44-2) (FITC-65063, Clone: F10-44-2) or FITC Plus Mouse IgG2a Isotype Control (C1.18.4) (FITC-65208, Clone: C1.18.4). Cells were not fixed. Lymphocytes were gated.



1x10<sup>6</sup> human PBMCs were surface stained with 5 ul FITC Plus Anti-Human CD44 (F10-44-2) (FITC-65063, Clone: F10-44-2) (red) or FITC Plus Mouse IgG2a Isotype Control (C1.18.4) (FITC-65208, Clone: C1.18.4) (blue). Cells were not fixed. Lymphocytes were gated.