

For Research Use Only

# FITC Plus Anti-Human CD44 (F10-44-2) Mouse IgG2a Recombinant Antibody

Catalog Number: FITC-65608



## Basic Information

Catalog Number:

FITC-65608

Size:

100 tests, 5 µl/test

Source:

Mouse

Isotype:

IgG2a

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:

Protein A purification

CloneNo.:

F10-44-2

Recommended Dilutions:

FC: 5 µl per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

495 nm / 524 nm

## Applications

Tested Applications:

FC

Species Specificity:

human

Positive Controls:

FC : human PBMCs,

## 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.

## 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, pH7.3

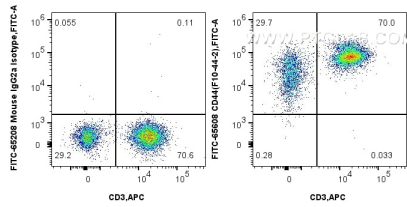
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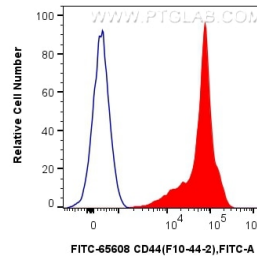
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## Selected Validation Data



1x10<sup>6</sup> FC receptor blocked human PBMCs were surface stained with 5 ul APC Anti-Human CD3 (UCHT1) Mouse IgG2a Recombinant Antibody (APC-65570, Clone: UCHT1), and 5 ul FITC Plus Anti-Human CD44 (F10-44-2) Mouse IgG2a RecAb (FITC-65608, Clone: F10-44-2) or FITC Plus Mouse IgG2a Isotype Control (C1.18.4) (FITC-65208, Clone: C1.18.4). Cells were not fixed.



1x10<sup>6</sup> FC receptor blocked human PBMCs were surface stained with 5 ul FITC Plus Anti-Human CD44 (F10-44-2) Mouse IgG2a RecAb (FITC-65608, 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.