

For Research Use Only

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

Catalog Number: FITC-65063

5 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

Recommended Dilutions:

FC: 5 µl per 10⁶ cells in 100 µl suspension

Excitation/Emission maxima wavelengths:

495 nm / 524 nm

Applications

Tested Applications:

FC

Cited Applications:

IF, FC

Species Specificity:

human

Cited Species:

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Yuan Cao	35696325	ACS Nano	FC
Xiao-Yu Zhu	40053279	Hum Cell	FC
Qiuyi Wang	39542189	J Ethnopharmacol	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, pH7.3

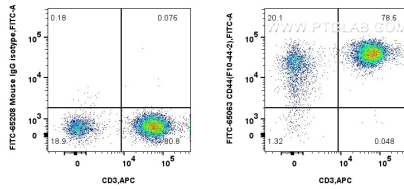
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

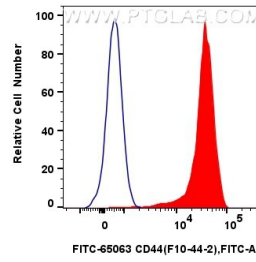
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



1x10⁶ 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.



1x10⁶ 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.