

For Research Use Only

# CoraLite® Plus 647 Anti-Human CD44 (F10-44-2) Mouse IgG2a Recombinant Antibody



Catalog Number: **CL647-65608**

## Basic Information

<b>Catalog Number:</b> CL647-65608	<b>GenBank Accession Number:</b> BC004372	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100tests , 5 µl/test	<b>GeneID (NCBI):</b> 960	<b>CloneNo.:</b> F10-44-2
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000026508	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Isotype:</b> IgG2a	<b>Full Name:</b> CD44 molecule (Indian blood group)	
	<b>Calculated MW:</b> 742 aa, 82 kDa	

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
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.

## Storage

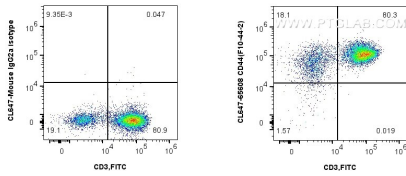
**Storage:**  
Store at 2-8°C. Avoid exposure to light.

**Storage Buffer:**  
PBS with 0.09% sodium azide and 0.5% BSA.

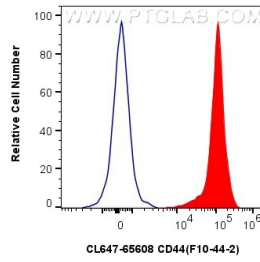
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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with CoraLite® Plus 488 Anti-Human CD3 and 5 ul CoraLite® Plus 647 Anti-Human CD44 (F10-44-2) Mouse IgG2a Recombinant Antibody (CL647-65608, Clone: F10-44-2), or CoraLite® Plus 647 Mouse IgG2a Isotype Control (C1.18.4) (CL647-65208, Clone: C1.18.4). Cells were not fixed. Lymphocytes were gated.



1x10<sup>6</sup> human PBMCs were surface stained with 5 ul CoraLite® Plus 647 Anti-Human CD44 (F10-44-2) Mouse IgG2a Recombinant Antibody (CL647-65608, Clone: F10-44-2) (red), or CoraLite® Plus 647 Mouse IgG2a Isotype Control (C1.18.4) (CL647-65208, Clone: C1.18.4) (blue). Cells were not fixed. Lymphocytes were gated.