

For Research Use Only

# CoraLite® Plus 488-conjugated CD44 Recombinant monoclonal antibody

Catalog Number:CL488-84369-5



## Basic Information

<b>Catalog Number:</b> CL488-84369-5	<b>GenBank Accession Number:</b> XM_006234631.3	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 25406	<b>CloneNo.:</b> 241648D1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O70509	<b>Recommended Dilutions:</b> IF-P: 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> Cd44 molecule	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> EG1458	<b>Calculated MW:</b> 40 kDa	
	<b>Observed MW:</b> 80 kDa	

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF-P : rat spleen tissue,
<b>Species Specificity:</b> rat	

## 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.

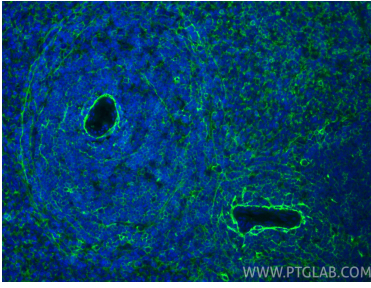
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

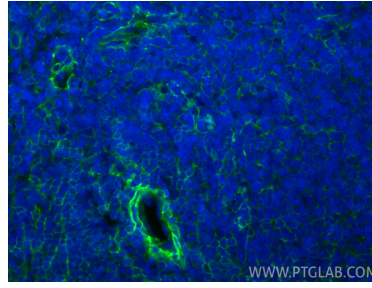
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat spleen tissue using CoraLite® Plus 488 CD44 antibody (CL488-84369-5, Clone: 241648D1 ) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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