



# Mouse Anti-Human CD45 monoclonal antibody, clone IJ41 [Alexa Fluor® 594] (DMAB-SYL01)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	TCR and BCR mediated activation
<b>Target</b>	CD45
<b>Immunogen</b>	CD45. Structure: Tyrosine phosphatases, type I transmembrane protein, 180-240 kD (multiple isoforms)
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human, Chimpanzee
<b>Clone</b>	IJ41
<b>Purification</b>	Purified
<b>Conjugate</b>	Alexa Fluor 594
<b>Applications</b>	IHC-P
<b>Format</b>	Liquid
<b>Concentration</b>	0.5 mg/ml
<b>Size</b>	100 µg
<b>Buffer</b>	Phosphate-buffered solution, pH 7.2
<b>Preservative</b>	0.09% Sodium Azide

<b>Storage</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
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## BACKGROUND

<b>Introduction</b>	CD45 is a 180-240 kD single chain type I membrane glycoprotein also known as leukocyte common antigen (LCA) and T200. It is a tyrosine phosphatase expressed on the plasma membrane of all hematopoietic cells, except erythrocytes and platelets. CD45 is a signaling molecule that regulates a variety of cellular processes including cell growth, differentiation, cell cycle, and oncogenic transformation. CD45 plays a critical role in T and B cell antigen receptor-mediated activation by dephosphorylating substrates including p56Lck, p59Fyn, and other Src family kinases. CD45 non-covalently associates with lymphocyte phosphatase-associated phosphoprotein (LPAP) on T and B lymphocytes. CD45 has been reported to bind galectin-1 and to be associated with several other cell surface antigens including CD1, CD2, CD3, and CD4.
<b>Keywords</b>	PTPRC;protein tyrosine phosphatase, receptor type, C;Lca;RT7;CD45;L-CA;T200;receptor-type tyrosine-protein phosphatase C;T200 glycoprotein;leucocyte common antigen;leukocyte common antigen A;leukocyte common antigen B;Protein tyrosine phosphatase, receptor-type, c polypeptide

## GENE INFORMATION

<b>Entrez Gene ID</b>	<a href="#">5788</a>
<b>UniProt ID</b>	<a href="#">M9MML4</a>