

**DATASHEET**

**CD45 Mouse Monoclonal Antibody(9.4)**

CAT. NO. AMA03734

**KEY FEATURES**

Target	CD45	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG2a. Liquid in PBS, pH 7.3, and 0.02% sodium azide.	Storage	at-20°C

**BACKGROUND**

Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor . Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. Dephosphorylates LYN, and thereby modulates LYN activity . Interacts with CLEC10A at antigen presenting cell-T cell contact; CLEC10A on immature dendritic cells recognizes Tn antigen-carrying PTPRC/CD45 receptor on effector T cells and modulates T cell activation threshold to limit autoreactivity.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

IF/ICC	1:50 - 1:200
FC	1:500 - 1:2000

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

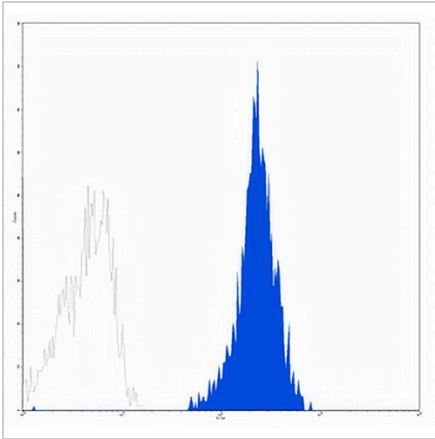
Description	Mouse monoclonal antibody to CD45
Specificity	Recognizes human CD45
Antibody Type	Primary antibody
Immunogen	Native purified human CD45.
Purification	The antibody was purified by affinity chromatography.
Form/Buffer	Mouse IgG2a. Liquid in PBS, pH 7.3, and 0.02% sodium azide.
Alternative Names	CD45; Receptor-type tyrosine-protein phosphatase C; Leukocyte common antigen; L-CA; T200; CD antigen CD45
Gene Symbol	PTPRC
Entrez Gene	5788(Human)
SwissProt	P08575(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Flow cytometric analysis of human peripheral blood lymphocytes using Anti-CD45 Antibody, followed by anti-mouse IgG PE.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.