

Product datasheet

Mouse Anti-CD45-FITC (MM107-F)



Overview

Product name	Anti-Human CD45
Host species	Mouse
Target species	Human
Tested applications	Suitable for: Flow cytometry, ICC, IHC-Fr, IHC-P
Immunogen	A KLH-conjugated synthetic peptide derived from human CD45 protein was used for immunization.
Conjugation	FITC

Properties

Form	Liquid
Storage instructions	Shipped at 4 °C. Store at 4 °C. Avoid freezing. Store at dark.
Storage buffer	Phosphate buffered saline pH 7.4, contains stabilizer and $\leq 0.09\%$ sodium azide.
Purity	Protein G affinity purified
Purification notes	This product was prepared by immunoaffinity chromatography using Protein G.
Conjugation notes	FITC-conjugated
Clonality	Monoclonal
Isotype	IgG
General notes	Centrifuge product if not completely clear after standing at room temperature. This product is stable before the expiry date at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Our customer's feedback says the antibody worked great. If in case the antibody fails to give results then please contact our scientific support team for assistance.

Applications

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end-user.

Product Usage Information:

Application Dilutions

Immunohistochemistry (Paraffin)	5-10 ug/ml
Immunohistochemistry (Frozen)	5-10 ug/ml
Immunofluorescence	5-10 ug/ml
Flow Cytometry	5-10 ug/ml

Background:

Protein tyrosine phosphatase, receptor type, C also known as PTPRC is an enzyme that, in humans, is encoded by the PTPRC gene. PTPRC is also known as CD45 antigen (CD stands for cluster of differentiation), which was originally called leukocyte common antigen (LCA). The protein product of this gene, best known as CD45, is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. CD45 contains an extracellular domain, a single transmembrane segment, and two tandem intracytoplasmic catalytic domains, and thus belongs to the receptor type PTP family. CD45 is a type I transmembrane protein that is present in various isoforms on all differentiated hematopoietic cells (except erythrocytes and plasma cells). CD45 has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes via its extracellular domain (a form of co-stimulation), or by activating various Src family kinases required for the antigen receptor signaling via its cytoplasmic domain. CD45 also suppresses JAK kinases, and so functions as a negative regulator of cytokine receptor signaling.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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References:

Note: This product has originally been developed at Avicenna Research Institute, Tehran, IRAN and assigned to PADZA Company according to contract 98/15/191, dated 98/01/10.