

Datasheet for ABIN135537
anti-CD45 antibody (FITC)



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1 Image

1 Publication

Overview

Quantity:	0.5 mg
Target:	CD45 (PTPRC)
Reactivity:	Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD45 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Chicken bursal lymphocytes
Clone:	LT40
Isotype:	IgM
Specificity:	Chicken CD45, Mr 190-215 kDa
Characteristics:	Mouse Anti-Chicken CD45-FITC

Target Details

Target:	CD45 (PTPRC)
Alternative Name:	CD45 (PTPRC Products)
Background:	Chicken CD45 is a transmembrane glycoprotein expressed on all leukocytes. B lineage cells in the bursa of Fabricius express the 215 kDa isoform while T lineage cells bear the 190 kDa

Target Details

variant. These high molecular weight molecules have intrinsic phosphotyrosine phosphatase activity characteristic of mammalian CD45.1 Levels of CD45 expression detected by MAb LT40 in the avian thymus are heterogeneous with approximately 90 % of thymocytes expressing fourfold higher levels of surface CD45 (CD45hi) than do the remaining 10 % (CD45lo) of thymocytes. The CD45lo population contains exclusively thymocytes with the CD3-CD4-CD8lo phenotype characteristic of the immediate precursors to the CD3-CD4+CD8+ thymic population which are CD45hi. This shift from low to high levels of surface CD45 expression is concomitant with the transition from CD4-CD8lo to CD4+CD8+ and before the expression of CD3.

Pathways: [TCR Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [CXCR4-mediated Signaling Events](#), [BCR Signaling](#)

Application Details

Application Notes:

- **Applications:** FC - Quality tested , IHC-FS - Reported in literature , IHC-PS - Reported in literature , IHC-WM - Reported in literature , ICC - Reported in literature , IP - Reported in literature , Sep - Reported in literature
- **Working Dilutions:** Flow Cytometry FITC, BIOT, and AF488 conjugates 1 g/106 cells PE, APC, and SPRD conjugates 0.2 g/106 cells For flow cytometry, the suggested use of these reagents is in a final volume of 100 L

Sample Volume: 1 mL

Restrictions: For Research Use only

Handling

Concentration: 0.5 mg/mL

Buffer: 0.5 mg in 1.0 mL of PBS/Sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: **Protect conjugated products from light.**
Each reagent is stable for the period shown on the bottle label if stored as directed.

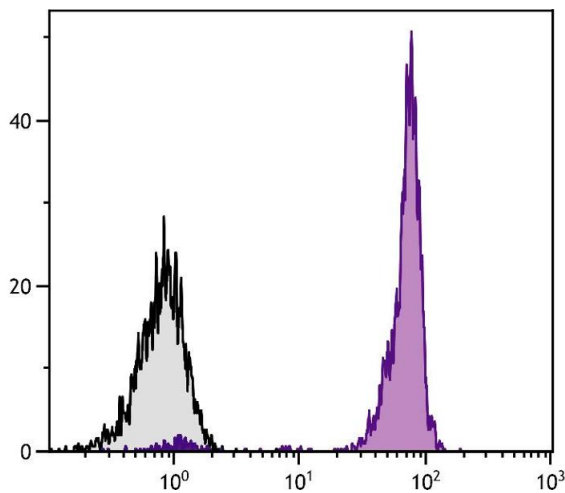
Storage: 4 °C

Storage Comment: Store at 2-8°C

Publications

Product cited in: Dalgaard, Norup, Pedersen, Handberg, Juorgensen, Juul-Madsen: "Flow cytometric assessment of chicken T cell-mediated immune responses after Newcastle disease virus vaccination and challenge." in: **Vaccine**, (2010) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Chicken peripheral blood lymphocytes were stained with Mouse Anti-Chicken CD45-FITC.