

Datasheet for ABIN476418
anti-CCR7 antibody (APC)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	CCR7
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CCR7 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Mouse CCR7
Clone:	4B12
Isotype:	IgG2a kappa
Purification:	Affinity purified

Target Details

Target:	CCR7
Alternative Name:	CCR7 (CCR7 Products)
Background:	Name/Gene ID: CCR7 Subfamily: Chemokine Family: GPCR

Target Details

Synonyms: CCR7, BLR2, Chemokine (C-C) receptor 7, CD197, C-C CKR-7, CMKBR7, CC chemokine receptor 7, CCR-7, CD197 antigen, CDw197, EBI1, EVI1, MIP-3 beta receptor, C-c chemokine receptor 7, C-C chemokine receptor type 7, CC-CKR-7, Chemokine c-c motif receptor 7

Gene ID: 1236

UniProt: [P32248](#)

Pathways: [Regulation of Actin Filament Polymerization](#), [Positive Regulation of Immune Effector Process](#)

Application Details

Application Notes: Approved: Flo

Usage: The 4B12 antibody has been tested by flow cytometric analysis of C57BL/6, Balb/C and SJL/J splenocytes and thymocytes. Important: Staining with the 4B12 monoclonal antibody requires different conditions than typically used for surface-antigen staining. Please use the protocol below. Moreover, we have found that staining at 37 °C, rather than 4 °C, results in brighter 4B12 staining, as well as better resolution between positive and negative populations. Please see data for the PE 4B12 (LS-C106090) which demonstrates a comparison of staining at 4 °C and 37 °C. Staining with 4B12 at 37 °C is not expected to interfere with co-staining other antigens, however this should be evaluated for individual experiments.1. Prepare cell suspension as normal and block FcγmαlllR/FcγmαlllR with 5 µg/million cells purified anti-mouse CD16/32 (LS-C107169) for 15 minutes on ice. If red blood cell lysis is carried out as part of cell preparation, ensure that fixatives are not present in the red blood cell lysis solution as this will eliminate 4B12 staining. Protocol for RBC Lysis of Mouse Spleen.2. Without washing, add 1 µg/million cells 4B12 and incubate in a 37 °C water bath or at 4 °C (please see notes above) for 0.5 hours.3. Wash cells 1X with 3 mL of Flow Cytometry Staining Buffer and decant supernatant.4. Analyze cells on flow cytometer or proceed with secondary staining on ice as normal. Note: Co-staining mouse CCR7 with the 4B12 antibody and the CCR7 ligand CCL19-Fc may be difficult due to different binding conditions required for the antibody versus the ligand, and steric hindrance which may prevent co-staining of 4B12 and CCL19-Fc. Cross-blocking experiments have demonstrated that 4B12 binding is able to prevent the detectable binding of CCL19-Fc, however not the opposite. Furthermore, the correlation between 4B12 and CCL19-Fc staining may be difficult to predict due to the presence of unknown CCL19-Fc receptors in addition to CCR7. The applications listed have been tested for the unconjugated form of this product. Other forms have not been tested.

Application Details

Comment:	Target Species of Antibody: Mouse
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, pH 7.2, 150 mM sodium chloride, 0.09 % 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:	Do not freeze. Product is photosensitive and should be protected from light.
Storage:	4 °C
Storage Comment:	Store at 4°C. Do not freeze. Protect from light.

Images

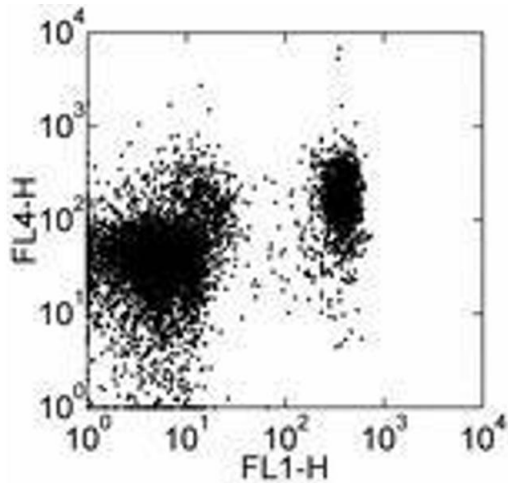


Image 1.

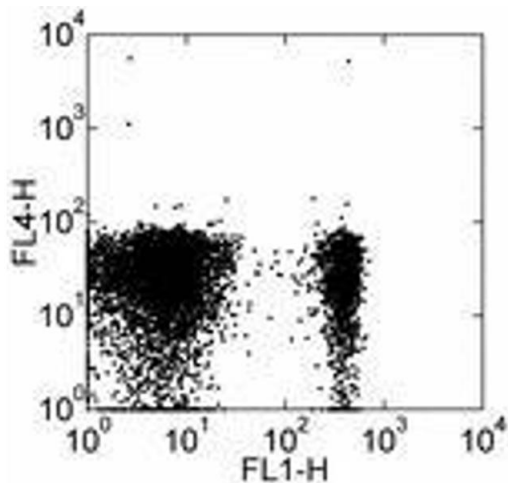


Image 2.