

CD79a Monoclonal Antibody (HM47), APC-eFluor™ 780, eBioscience™

Product Details

Size	100 Tests
Species Reactivity	Baboon, Bovine, Dog, Chicken, Chimpanzee, Horse, Guinea pig, Human, Mouse, Non-human primate, Pig, Rhesus monkey, Rat
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HM47
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573968

Applications

Flow Cytometry (Flow)

Tested Dilution

5 µL (0.06 µg)/test

Publications

1 Publication

Product Specific Information

Description: The monoclonal antibody HM47 recognizes the cytoplasmic domain of CD79a, also known as mb-1. CD79a is a 47 kDa membrane glycoprotein that associates with CD79b to form the heterodimeric B cell receptor (BCR). This receptor is responsible for B cell signaling, resulting in activation, apoptosis or anergy. Expression of CD79a is found throughout development from the earliest pre-B cell to plasma cells. CD79 is expressed on B cell neoplasms and some non-B cell malignancies such as AML. Unlike other antibodies that can be masked in B cell neoplastic cells, HM47 is a reliable antibody for recognizing CD79a and, as such, is a good marker for B cells. Because several variants of CD79a exist, the exact location of the epitope may differ slightly. Nevertheless, in humans this epitope is typically amino acids 208-222.

The HM47 antibody reacts to human, mouse, rat, dog, primates (rhesus, chimpanzee, macaque and baboon) pig, guinea rabbit, pig, horse, cow and chicken.

Applications Reported: This HM47 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This HM47 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable

of detecting this fluorochohome.

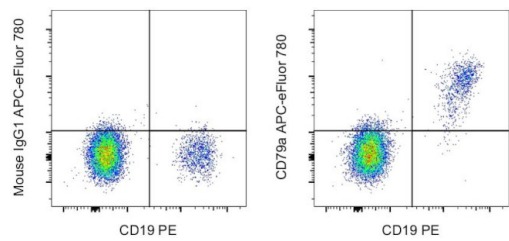
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD79a Monoclonal Antibody (HM47), APC-eFluor™ 780, eBioscience™



CD79a Antibody (47-0792-42) in Flow
Intracellular staining of normal human peripheral blood cells with Anti-Human CD19 PE (Product # 12-0199-80) and Mouse IgG1 K Isotype Control APC-eFluor® 780 (Product # 47-4714-82) (left) or Anti-CD79a APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Stem cell research & therapy	Year
Human umbilical cord mesenchymal stem cells improve the reserve function of perimenopausal ovary via a paracrine mechanism.	2017
"Published figure using CD79a monoclonal antibody (Product # 47-0792-42) in Flow Cytometry"	
Authors: Li J,Mao Q,He J,She H,Zhang Z,Yin C	

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.