

# CD79a Monoclonal Antibody (HM47), PE, eBioscience™

## Product Details

Size	25 Tests
Species Reactivity	Baboon, Bovine, Dog, Chicken, Chimpanzee, Horse, Guinea pig, Human, Mouse, Non-human primate, Pig, Rhesus monkey, Rat
Published Species	Pig, Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HM47
Conjugate	PE
Excitation/Emission Max	565/576 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_2043849

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	3 Publications

## 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.

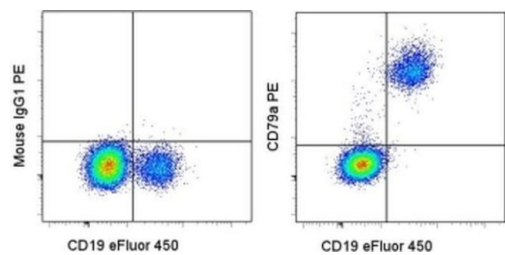
**Applications Reported:** This HM47 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

**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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD79a Monoclonal Antibody (HM47), PE, eBioscience™



**CD79a Antibody (12-0792-41) in Flow**  
Surface staining of normal human peripheral blood cells with Anti-Human CD19 eFluor® 450 (Product # 48-0199-42) followed by intraceullular staining with Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (left) or Anti-Human CD79a PE (right) using IC Fixation and Permeabilization Buffers. Cells in the lymphocyte gate were used for analysis.

4 References

Immunohistochemistry (1)

Basic research in cardiology	Year 2017
Long-term spironolactone treatment reduces coronary TRPC expression, vasoconstriction, and atherosclerosis in metabolic syndrome pigs.	Species Pig
Authors: Li W,Chen X,Riley AM,Hiett SC,Temm CJ,Beli E,Long X,Chakraborty S,Alloosh M,White FA,Grant MB,Sturek M,Obukhov AG	

Flow Cytometry (3)

Stem cells international	Year 2020
In Vitro Expansion and Characterization of Mesenchymal Stromal Cells from Peritoneal Dialysis Effluent in a Human Protein Medium.	Species Human
"12-0792 was used in Flow cytometry/Cell sorting to show that upon expansion in a human protein medium, pMSCs shows a differential MSC marker expression profile from those of bone marrow or adipose tissue-derived MSCs and could maintain the multipotency."	
Authors: Han B,Zhou L,Guan Q,da Roza G,Wang H,Du C	

Stem cell research & therapy	Year 2017
Human umbilical cord mesenchymal stem cells improve the reserve function of perimenopausal ovary via a paracrine mechanism.	Species Human
"12-0792 was used in Flow cytometry/Cell sorting to investigate the potential of hUCMSCs in improving ovarian function and withstanding ovarian senescence."	
Authors: Li J,Mao Q,He J,She H,Zhang Z,Yin C	

View more Flow references on thermofisher.com

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