

Anti-CD79a [HM47] Standard Size Ab01318-2.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors. Developed in partnership with Ximbio (www.ximbio.com).

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2a, [Fc Silent™](#), Kappa

Clone Number: HM47

Alternative Name(s) of Target: MB-1; B-cell antigen receptor complex-associated protein alpha chain; Ig-alpha; MB-1 membrane glycoprotein; Membrane-bound immunoglobulin-associated protein; Surface IgM-associated protein; MB-1 membrane glycoprotein;

UniProt Accession Number of Target Protein: P11912

Published Application(s): IP, WB, IHC

Published Species Reactivity: Bovine, Chicken, Guinea Pig, Horse, Opossum, Pig, Primate, Rabbit, Rat, Human, Mouse

Immunogen: This antibody was raised by immunising BALB/c mice with a synthetic peptide G-T-Y-Q-D-V-G-S-L-N-I-A-D-V-Q, representing amino acids 202-216 of the human mb-1 protein and conjugated to thyroglobulin.

Specificity: This antibody recognises CD79a which is involved in initiation of the signal transduction cascade activated by binding of antigen to the B-cell receptor. CD79a is used as an adjunct to CD20 for detecting normal and neoplastic B cells in tissue sections.

Application Notes: IP: HM47 antibody was successfully used in immunoprecipitation of samples coming from NP-40 lysates of surface-labelled Daudi cells what confirmed participation of the mb-1 gene product in mIgM-associated heterodimer; subsequently a reprecipitation was performed as a confirmatory step (van Noesel et al., 1991). IHC: This antibody presented strong selective staining of B cell follicles in sections of lymphoid tissue (Mason et al., 1991). HM47 showed also high specificity in staining bone marrow samples with acute promyelocytic leukemia (APL) (stained 86% APL cases and only 10% of non-APL samples) (Bhargava et al., 2007).

Antibody First Published in: van Noesel et al. The membrane IgM-associated heterodimer on human B cells is a newly defined B cell antigen that contains the protein product of the mb-1 gene. J Immunol. 1991 Jun 1;146(11):3881-8.

[PMID:2033258](#)

Note on publication: This article describes generation and application of HM47 antibody.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.