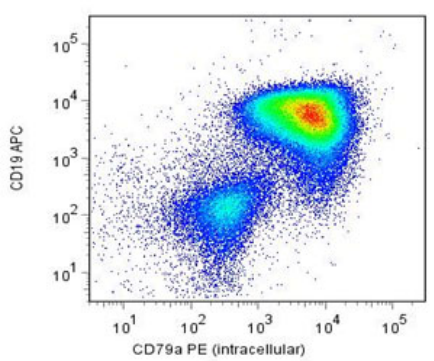
CD79A monoclonal antibody, clone HM57

Catalog # MAB3843 Size 100 ug

Applications



Flow Cytometry

Intracellular staining of CD79A with CD79A monoclonal antibody, clone HM57 (Cat # MAB3843) conjugated with PE (gated on leukemic blast cells) in a patient with childhood B-precursor ALL.

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of CD79A.
Immunogen	A synthetic peptide corresponding to amino acids 202-216 of human CD79A.
Host	Mouse
Theoretical MW (kDa)	40-45
Reactivity	Bovine, Chicken, Guinea pig, Horse, Human, Mouse, Opossum, Pig, Rabbit, Rat
Specificity	This antibody interacts with CD79a (Iga), a 40-45 KDa subunit of B cell antigen-specific receptor (B CR) and its early developmental forms.
Form	Liquid
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)

Storage Instruction	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry
- Flow Cytometry

Intracellular staining of CD79A with CD79A monoclonal antibody, clone HM57 (Cat # MAB3843) conjugated with PE (gated on leukemic blast cells) in a patient with childhood B-precursor ALL.

Gene Info — CD79A

Entrez GeneID	973
Gene Name	CD79A
Gene Alias	IGA, MB-1
Gene Description	CD79a molecule, immunoglobulin-associated alpha
Omim ID	112205
Gene Ontology	Hyperlink
Gene Summary	The B lymphocyte antigen receptor is a multimeric complex that includes the antigen-specific com ponent, surface immunoglobulin (Ig). Surface Ig non-covalently associates with two other proteins, Ig-alpha and Ig-beta, which are necessary for expression and function of the B-cell antigen recept or. This gene encodes the Ig-alpha protein of the B-cell antigen component. Alternatively spliced tr anscript variants encoding different isoforms have been described. [provided by RefSeq
Other Designations	B-cell antigen receptor complex-associated protein alpha chain|CD79A antigen|CD79a antigen (i mmunoglobulin-associated alpha)|MB-1 membrane glycoprotein|surface IgM-associated protein

Publication Reference

- The B29 and mb-1 polypeptides are differentially expressed during human B cell differentiation.

  Mason DY, van Noesel CJ, Cordell JL, Comans-Bitter WM, Micklem K, Tse AG, van Lier RA, van Dongen JJ.

  European Journal of Immunology 1992 Oct; 22(10):2753.

  Application: IHC-Fr, Human, Cat, Human tonsil, Cat lympho node

- CD79a: a novel marker for B-cell neoplasms in routinely processed tissue samples.

  Mason DY, Cordell JL, Brown MH, Borst J, Jones M, Pulford K, Jaffe E, Ralfkiaer E, Dallenbach F, Stein H, et al.

  Blood 1995 Aug; 86(4):1453.

  Application: IP, Human, Ramos cells

- Detection of T and B cells in many animal species using cross-reactive anti-peptide antibodies.

  Jones M, Cordell JL, Beyers AD, Tse AG, Mason DY.

  The Journal of Immunology 1993 Jun; 150(12):5429.

  Application: IHC, WB-Ce, WB-Ti, Mouse, Rabbit, Rat, Spleen, Thymocytes, Lymph node cells

- The IgM-associated protein mb-1 as a marker of normal and neoplastic B cells.

  Mason DY, Cordell JL, Tse AG, van Dongen JJ, van Noesel CJ, Micklem K, Pulford KA, Valensi F, Comans-Bitter WM, Borst J, et al..

  Journal of Immunology 1991 Dec; 147(11):2474.

  Application: IHC-Fr, IP, Bovine, Horse, Human, Monkey, Mouse, Pig, Rat, Human lymphoma, lymphoid tissue; Lymph node or spleen in Bovine, Horse, Monkey, Mouse, Pig, Rat

- 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.

  van Noesel CJ, van Lier RA, Cordell JL, Tse AG, van Schijndel GM, de Vries EF, Mason DY, Borst J.

  Journal of Immunology 1991 Jun; 146(11):3881.

  Application: IP, Human, Daudi cells

Pathway

- B cell receptor signaling pathway
- Primary immunodeficiency

Disease

- Cardiovascular Diseases

- Diabetes Mellitus
- Edema
- Hodgkin Disease
- Lymphoproliferative Disorders
- Waldenstrom Macroglobulinemia
- Werner syndrome