Datasheet for ABIN2749074

anti-CD79a antibody (AA 208-222)

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Overview

Quantity:	0.1 mg
Target:	CD79a (CD79A)
Binding Specificity:	AA 208-222
Reactivity:	Human, Mouse, Rat, Cow, Pig, Chicken, Guinea Pig, Horse, Rabbit, Dog, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD79a antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP)

Product Details

Immunogen:	Synthetic peptide corresponding to C terminal amino acids 208-222 of human CD79a
Clone:	HM47
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody HM47 reacts with intracellular domain of CD79a (Ig alpha), a 40-45 kDa subunit of B cell antigen-specific receptor (BCR) and its early developmental forms.
Cross-Reactivity (Details):	Human, Non-Human Primates, Porcine, Mouse, Rat, Bovine, Canine (Dog), Equine (Horse), Guinea pig, Rabbit, Chicken
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD79a (CD79A)
Alternative Name:	CD79a (CD79A Products)
Background:	CD79a molecule,CD79a (Ig alpha, MB1) forms disulfide-linked heterodimer with CD79b (Ig beta). They both are transmembrane proteins with extended cytoplasmic domains containing immunoreceptor tyrosine activation motives (ITAMs), and together with cell surface immunoglobulin they constitute B-cell antigen-specific receptor (BCR). CD79a and b are the first components of BCR that are expressed developmentally. They appear on pro-B cells in association with the endoplasmic reticulum chaperone calnexin. Subsequently, in pre-B cells, CD79 heterodimer is associated with lambda5-VpreB surrogate immunoglobulin and later with antigen-specific surface immunoglobulins. At the plasma cell stage, CD79a is present as an intracellular component. CD79a/b complex interacts with Src-family tyrosine kinase Lyn, which phosphorylates its cytoplasmic ITAM motives to form docking sites for downstream signaling.,BCR alpha, Ig-alpha, MB-1, IGA
Gene ID:	973
UniProt:	P11912
Pathways:	BCR Signaling

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL, intracellular staining. Western blotting: Recommended dilution: 1-2 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM 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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

Zhao, Hassan, Perry, Ning, Stass, Dehner: "C-MYC rearrangements are frequent in aggressive mature B-Cell lymphoma with atypical morphology." in: **International journal of clinical and experimental pathology**, Vol. 1, Issue 1, pp. 65-74, (2008) (PubMed).

Bhargava, Kallakury, Ross, Azumi, Bagg: "CD79a is heterogeneously expressed in neoplastic and normal myeloid precursors and megakaryocytes in an antibody clone-dependent manner." in: **American journal of clinical pathology**, Vol. 128, Issue 2, pp. 306-13, (2007) (PubMed).

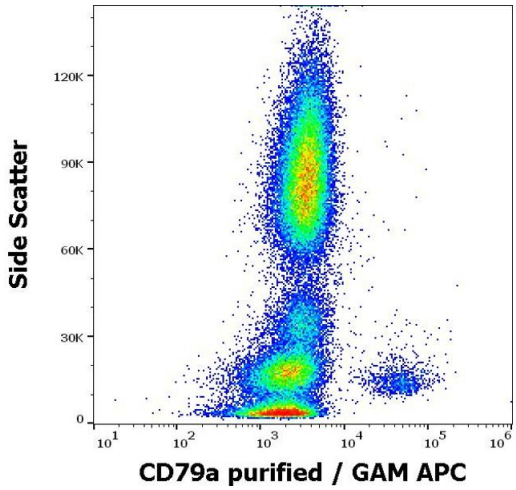
Fernandez, West, Jackson, Kidney: "Immunohistochemical and histochemical stains for differentiating canine cutaneous round cell tumors." in: **Veterinary pathology**, Vol. 42, Issue 4, pp. 437-45, (2005) (PubMed).

Islas-Ohlmayer, Padgett-Thomas, Domiati-Saad, Melkus, Cravens, Martin, Netto, Garcia: " Experimental infection of NOD/SCID mice reconstituted with human CD34+ cells with Epstein-Barr virus." in: **Journal of virology**, Vol. 78, Issue 24, pp. 13891-900, (2004) (PubMed).

Torlakovic, Torlakovic: "B-cell markers in lymphocyte predominance Hodgkin disease." in: **Archives of pathology & laboratory medicine**, Vol. 126, Issue 7, pp. 862-3, (2002) (PubMed).

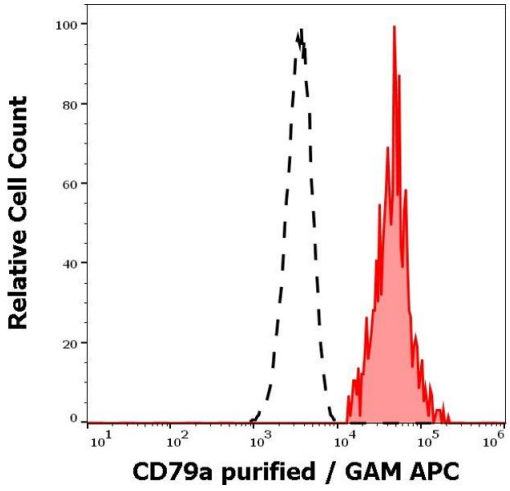
There are more publications referencing this product on: Product page

Images



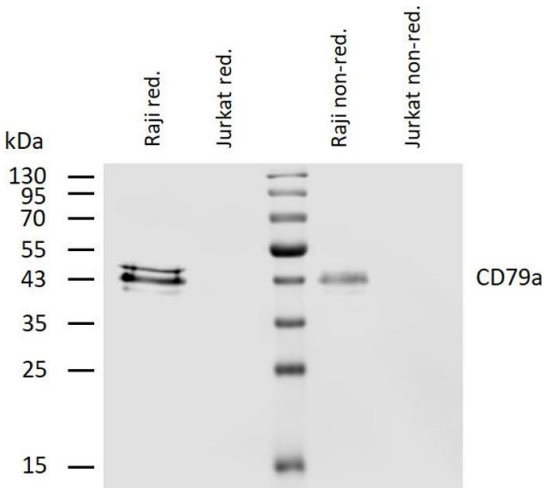
Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human CD79a (HM47) purified antibody (concentration in sample 4 µg/mL, GAM APC).



Flow Cytometry

Image 2. Separation of human CD79a positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-human CD79a (HM47) purified antibody (concentration in sample 4 µg/mL, GAM APC).



Western Blotting

Image 3. Western blotting analysis of human CD79a using mouse monoclonal antibody HM47 on lysates of Raji and Jurkat (negative control) cell line under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of mouse anti-H-Ras monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. CD79a was detected around 43 kDa.

