

anti-human CD79a

Monoclonal Antibody HM57 to CD79a (Human)

Cat-No: **21270791**

100 µg in 100 µl

Clone: HM57

Specificity: The antibody HM57 interacts with CD79a (Igα), a 40-45 kDa subunit of B cell antigen-specific receptor (BCR) and its early developmental forms.

HLDA V; WS Code BC cB018, HLDA VI; WS Code BP 193, HLDA VI; WS Code BP 89
HLDA VI; WS Code B B103, HLDA VI; WS Code B CD79.4

Isotype subclass: Mouse IgG1

Species Reactivity: Human, Porcine, Mouse, Rat, Bovine, Equine (Horse), Guinea pig, Opossum, Rabbit, Chicken, Other not determined

Form: Purified from hybridoma culture supernatant by protein A-affinity chromatography.

Purity: > 95% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 0.09 % sodium azide (pH 7.2).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application: Flow Cytometry, Immunohistochemistry (paraffin /frozen sections)

References:

- *Bannish G and others: J Exp Med. 2001 Dec 3;194(11):1583-96.
- *Pike KA and others: J Immunol. 2004 Feb 15;172(4):2210-8.
- *Fuentes-Pananá EM and others: J Immunol. 2004 Jul 15;173(2):1000-11.
- *Fuentes-Pananá EM and others: J Immunol. 2005 Feb 1;174(3):1245-52.
- *Fuentes-Pananá EM and others: J Immunol. 2006 Dec 1;177(11):7913-22.

Background: **CD79a** (Igα, MB1) forms disulfide-linked heterodimer with CD79b (Igβ). 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 λ5-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.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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