

## anti-human CD79a

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

**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  $\lambda$ 5-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.

<b>Clone:</b>	HM57
<b>Isotype:</b>	Mouse IgG1
<b>Physical state:</b>	Purified from ascites by protein-G affinity chromatography
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Buffer:</b>	PBS with 0.09% sodium azide (pH 7.2)
<b>Storage Instruction:</b>	Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
<b>Application:</b>	Flow Cytometry, Immunohistochemistry (frozen and paraffin sections)
<b>Reference:</b>	Fuentes-Pananá EM and others: J Immunol. 2006 Dec 1;177(11):7913-22.
<b>Quantity:</b>	0.1 mg
<b>Order N°:</b>	H12497

**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).

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