



11-530-C025

## Monoclonal Antibody to CD79a Purified Antibody (0.025 mg)

<b>Clone:</b>	HM57
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	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. 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
<b>Immunogen:</b>	Synthetic peptide corresponding to amino acids 202-216 of human CD79a
<b>Species Reactivity:</b>	Human, Porcine, Mouse, Rat, Bovine, Equine (Horse), Guinea pig, Opossum, Rabbit, Chicken, Other not determined
<b>Application:</b>	Flow Cytometry Recommended dilution: 5 µg/ml Immunohistochemistry (paraffin sections) Recommended dilution: 10 µg/ml Immunohistochemistry (frozen sections)
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified from hybridoma culture supernatant by protein-A affinity chromatography.
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies****References:**

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