Monoclonal Antibody to CD79a
Purified Antibody (0.025 mg)

Clone: HM57
Isotype: Mouse IgG1
Specificity: 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

Regulatory Status: RUO
Immunogen: Synthetic peptide corresponding to amino acids 202-216 of human CD79a
Species Reactivity: Human, Porcine, Mouse, Rat, Bovine, Equine (Horse), Guinea pig, Opossum, Rabbit, Chicken, Other not determined
Application: Flow Cytometry
Recommended dilution: 5 µg/ml
Application note: intracellular staining
Immunohistochemistry (paraffin sections)
Recommended dilution: 10 µg/ml
Immunohistochemistry (frozen sections)
Recommended dilution: 10 µg/ml

Purity: > 95% (by SDS-PAGE)
Purification: Purified by protein-A affinity chromatography
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration: See vial label
Lot Number: See vial label

Background: 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.
References:


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