EXBIO Antibodies

PRODUCT DATA SHEET

11-530-C100

Monoclonal Antibody to CD79a Purified Antibody (0.1 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.

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

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