

36-1935: Monoclonal Antibody to CD37 (Peripheral Mature B-Cell Marker)(Clone : IPO-24)

Clonality :	Monoclonal
Clone Name :	IPO-24
Application :	Functional Assay,FACS,IF
Reactivity :	Human
Gene :	CD37
Gene ID :	951
Uniprot ID :	P11049
Format :	Purified
Alternative Name :	CD37,TSPAN26
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Spleen cells of a patient with hairy cell leukemia

Description

Recognizes a protein of 33-55kDa, identified as CD37 (Workshop V; Code CD37.7). CD37 is strongly expressed on normal and neoplastic mature (slg+) B-lymphocytes. In B-cell ontogeny, CD37 appears after the pre-B-cell stage, is maintained during peripheral B-cell development and is lost upon terminal differentiation into plasma cells.¹ CD37 is also present, at low densities, on resting and activated T cells, neutrophils, monocytes, and some myelomonocytic leukemia cells. It is absent from platelets, erythrocytes. CD37 is a member of a family of tetraspan transmembrane proteins, including CD9, CD53, CD63, CD81, and CD82. It associates other tetraspan transmembrane proteins and MHC class II molecules to form a large complex at the surface of B cells and play a role in signal transduction. CD37 is a valuable and stable marker for peripheral mature B-cells and corresponding malignancies like B-cell chronic lymphocytic leukemia (B-CLL), hairy cell leukemia (HCL), and all types of B-cell non-Hodgkin's lymphoma (B-NHL).

Product Info

Amount :	100 µg
Purification :	Affinity Chromatography
Content :	100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Functional Studies (Order Ab without Azide); Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml);

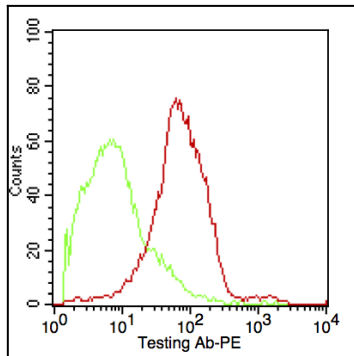


Fig. 1: Cell Surface of staining of PHA stimulated PBMC. Green represents isotope control (ABEOMICS). Red represents CD37 (IPO 24). 0.5 ug antibody was used. Goat anti-mouse PE was used as secondary antibody.