

Mouse anti-Human CD37 Monoclonal Antibody | anti-CD37 antibody

CD37 (Peripheral Mature B-Cell Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62736	Mouse	Human	Immunofluorescence, Flow Cytometry, Functional Assay, Functional Assay

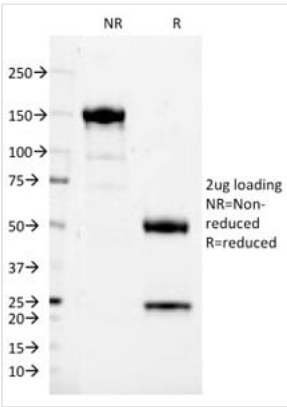
PRODUCT SYNONYMS

CD37; Monoclonal Antibody; CD37 (Peripheral Mature B-Cell Marker) Mouse Monoclonal Antibody; Cell differentiation antigen 37; GP52 40; Tetraspanin-26; Tspan-26; TSPAN26; anti-CD37 antibody

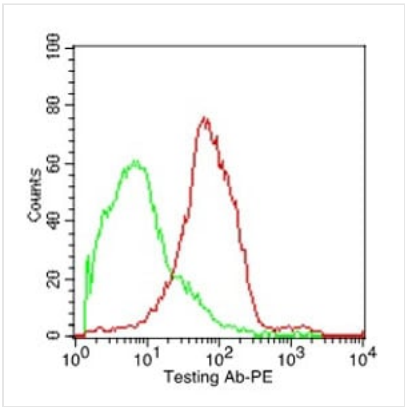
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	IPO-24
Specificity	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).
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	213
Applicable Applications for anti-CD37 antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry), FA (Functional Assay)
Cellular Localization	Cell Surface
Immunogen	Spleen cells of a patient with hairy cell leukemia
Hu-Chromosome Location	19q13.3
Positive Control	Daudi, Raji, Namalva, Ramos cells and human lymphocytes. Human tonsil and lymph node.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified CD37 Mouse Monoclonal Antibody (IPO24). Confirmation of Purity and Integrity of Antibody.



FCM/FACS (Flow Cytometry)
Flow Cytometric staining of PHA stimulated PBMC. Green isotype control; Red CD37 Mouse Monoclonal Antibody (IPO24). Goat anti-Mouse PE was used as secondary antibody

ADDITIONAL INFORMATION

References	Schlossman SF et al. eds. Leukocyte Typing V, p556-559, Oxford University Press, Oxford, 1995. Sidorenko SP et al. Monoclonal antibodies of the IPO series in studying and diagnosing malignant lymphoproliferative diseases. Gematol Transfuziol 1990, 35(4):19-22 Sidorenko SP et al. Monoclonal antibodies of IPO series against B cell differentiation antigens in leukemia and lymphoma immunophenotyping Neoplasma 1992;39(1):3-9. Maecker HT et al. The tetraspanin superfamily: molecular facilitators. FASEB J 1997,11(6):428-442 Angelisova P et al. Association of four antigens of the tetraspans family (CD37, CD53, TAPA-1, and R2/C33) with MHC class II glycoproteins. Immunogenetics 1994;39(4):249-256
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NCBI AND UNIPROT INFORMATION

NCBI GI #	91807110
NCBI GeneID	951
NCBI Accession #	NP_001035120.1
NCBI GenBank Nucleotide #	NM_001040031.1
UniProt Accession #	P11049; Q3KPF9; B4DVC1
Molecular Weight	33-55kDa
NCBI Official Full Name	leukocyte antigen CD37 isoform B
NCBI Official Synonym Full Names	CD37 molecule
NCBI Official Symbol	CD37
NCBI Official Synonym Symbols	GP52-40; TSPAN26
NCBI Protein Information	leukocyte antigen CD37
UniProt Protein Name	Leukocyte antigen CD37
UniProt Gene Name	CD37
UniProt Synonym Gene Names	TSPAN26; Tspan-26
UniProt Entry Name	CD37_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

