

Anti-CD37 Antibody

Catalog # AP96136

Product Information

Application	WB, FC
Primary Accession	P11049
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31703

Additional Information

Gene ID	951
Other Names	TSPAN26; Leukocyte antigen CD37; Tetraspanin-26; Tspan-26; CD37
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the Central region of human CD37. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/10 - 1/50)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CD37
Synonyms	TSPAN26
Function	Structural component of specialized membrane microdomains known as tetraspanin-enriched microdomains (TERMs), which act as platforms for receptor clustering and signaling. Participates thereby in diverse biological functions such as cell signal transduction, adhesion, migration and protein trafficking (PubMed: 22624718). Upon ligand binding, two signaling pathways are activated, one acting through phosphorylation by LYN leading to cell death or a survival pathway with activation of GSK3B (PubMed: 22624718). Plays an essential role essential for clustering of integrin ITGA4/ITGB1 and promotes its mobility in the plasma membrane of B-cells. In turn, participates in ITGA4/ITGB1 integrin-mediated antiapoptotic signaling through AKT (By similarity). Also plays a role in the migration of dendritic cells and neutrophils to draining lymph nodes, as well as in their integrin- mediated adhesion (By similarity). Negatively regulates IL-6 responses through direct interaction with SOCS3 thereby preventing constitutive IL-6 signaling (PubMed: 26784544).

Alternatively, inhibition of IL-6 signaling can also occur via interaction and stabilization of DECTIN1/CLEC7A at the cell membrane to inhibit its ability to promote the production of IL-6 (PubMed:[17182550](#)).

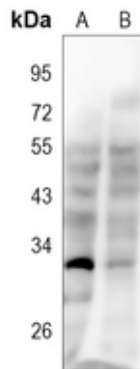
Cellular Location

Cell membrane; Multi-pass membrane protein

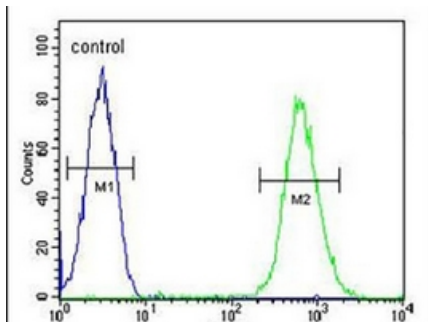
Tissue Location

B-lymphocytes (PubMed:26784544). Antigen presenting cells (PubMed:17182550).

Images



Western blot analysis of CD37 expression in Jurkat (A), HCT116 (B) whole cell lysates. (Predicted band size: 31 kD; Observed band size: 31 kD)



Flow cytometric analysis of CEM cells using Anti-CD37 Antibody. The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody at 37 °C for 60 min. The secondary antibody Goat Anti-Rabbit IgG (H&L) - AF488 was incubated at 37 °C for 40 min. Isotype control antibody (blue line) was used under the same condition.

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