

Anti-CD37 Reference Antibody (Gen3009)

Catalog # APR11587

Product Information

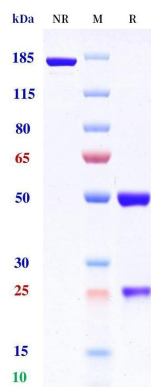
Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P11049
Reactivity	Human
Clonality	Bispecific
Isotype	IgG-like
Calculated MW	31703

Additional Information

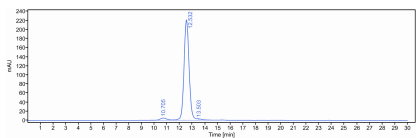
Target/Specificity	TSPAN26 / CD37
Expression system	CHO

Protein Information

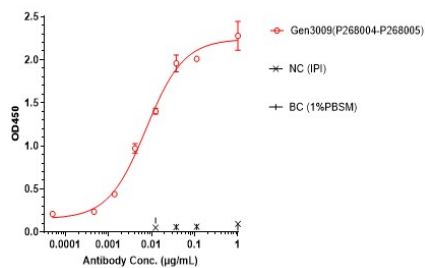
Name	CD37
Synonyms	TSPAN26
Function	Structural component of specialized membrane microdomains known as tetraspanin-enriched microdomains (TERMs), which act as platforms for receptor clustering and signaling. Participates thereby in diverse biological functions such as cell signal transduction, adhesion, 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).



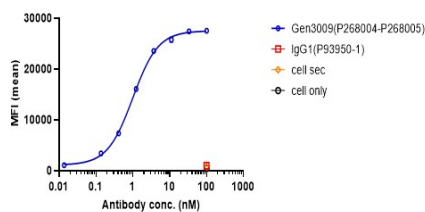
Anti-CD37 Reference Antibody (Gen3009) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



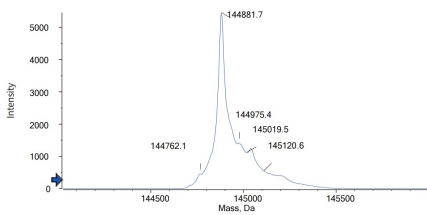
The purity of Anti-CD37 Reference Antibody (Gen3009) is 96.10%, determined by SEC-HPLC.



Gen3009 bound to CD37 protein, and then rebounded to secondary antibodies(Anti-human-IgG-Fc-HRP) , and read OD450. As shown in fig, Gen3009 bound to hu-CD37-VLP, and the EC50 was 0.007 nM.



Gen3009 bound to huCD37-FL-HEK293 cells, and then rebounded to fluorescent secondary antibodies(Anti-human IgG, Fcy PE) , and test by flow cytometry. As shown in fig, Gen3009 bound to huCD37-FL-HEK293 cells, and the EC50 was 0.999 nM.



The detected molecular weight of Anti-CD37 Reference Antibody (Gen3009) is 144.88 kDa.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.