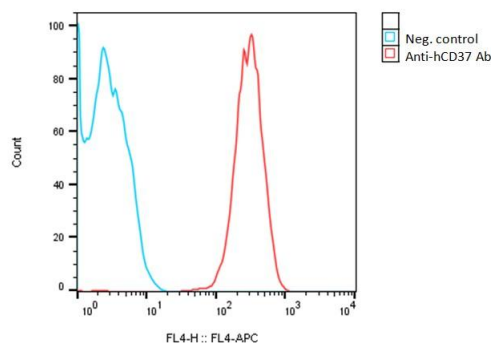


SPECIFICATIONS

Catalog Number	C3088
Cell Line Name	Human CD37-CHO-K1 stable cell line
Accession Number	NM_001774.3
Host Cell	Adherent CHO-K1
Quantity	Two vials of frozen cells (2x10 ⁶ per vial)
Culture Medium	DMEM with 10% FBS, 4µg/ml puromycin
Freezing Medium	90% FBS and 10% DMSO
Storage	Liquid nitrogen

DATA

Detection of human CD37 expression on human CD37-CHO-K1 stable cells using a monoclonal antibody specific for human CD37 (Invitrogen #17-0379-41)


BACKGROUND

CD37 is a member of the tetraspanin family which are involved in various cellular processes such as cell migration, adhesion, signal transduction, and immune responses. CD37 plays a critical role in regulating immune cell function, particularly in B cells, T cells, and dendritic cells. In B cells, it is involved in B cell maturation and signal transduction pathways that regulate antibody production, survival, and proliferation. In T cells and dendritic cells, CD37 is involved in antigen presentation and the immune synapse formation between T cells and antigen-presenting cells. CD37 expression is largely restricted to the hematopoietic system and is absent in non-hematopoietic tissues leading to its association in hematologic cancers such as non-Hodgkin Lymphoma and chronic lymphocytic leukemia where CD37 is abnormally highly expressed. Given its role in B-cell malignancies, CD37 has emerged as a promising therapeutic target giving way to the development of several therapeutic strategies targeting CD37.

References

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