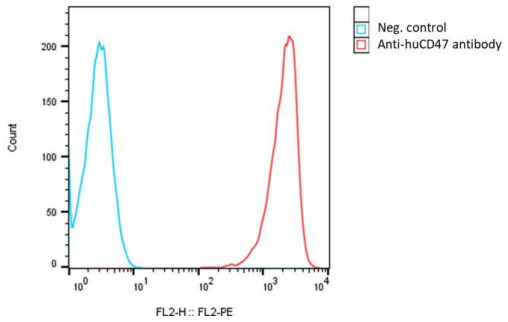
Human CD47-CHO-K1 Stable Cell Line
Catalog Number: C3017

SPECIFICATIONS

Catalog Number	C3017
Cell Line Name	Human CD47-CHO-K1 stable cell line
Accession Number	Full-length human CD47 (NP_001768.1)
Host Cell	Adherent CHO-K1
Quantity	Two vials of frozen cells ($1x10^6$ 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 CD47 expression on CHO-K1 cells using a recombinant human anti-CD47 monoclonal antibody (Cat. #A1011) specific for human CD47, followed by staining with a PE-anti-human IgG antibody.



BACKGROUND

CD47 is a transmembrane protein that belongs to the immunoglobulin (Ig) superfamily and regulates phagocytosis by macrophages. Binding of CD47 to its counter-receptor, SIRPα, on macrophages leads to inhibition of phagocytosis. CD47 is widely expressed in normal tissues but is highly expressed on cell surface of many types of cancer, including human acute myeloid leukemia (AML) and small-cell lung cancer (SCLC). CD47 serves as a don't-eat-me signal and its overexpression is a mechanism for cancer cells to evade immune surveillance. Blocking the interaction of CD47 with SIRPα by anti-CD47 blocking antibody leads to increased phagocytosis and tumor growth inhibition.

References

McCracken MN, Cha AC, Weissman IL. Molecular pathways: activating T cells after cancer cell phagocytosis from blockade of CD47 "don't eat me" signals. *Clin Cancer Res.* **21**:3597-601. 2015.

Liu, J. et al., Pre-clinical development of a humanized anti-CD47 antibody with anti-cancer therapeutic potential. *PLOS ONE.* **10(9)**:e0137345, 2015.

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