Human CD7-PE CAR TEST Kit

Summary

Code#	APK152
Protein Construction	Human CD7(Ala26-Pro180) conjugated to PE
Expression System	CHO
Purity	Recombinant Expression and Affinity purified
Conjugate	PE(Ex: 488nm, Em: 575nm)
Formation	Liquid, 10mM PBS (pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300
Storage	Store at 4°C(Avoid freeze / thaw cycles), protect from light

Description

Human CD7-PE CAR TEST Kit is designed for detecting antibody expression of CAR related cell specifically. Human CD7-PE CAR TEST Kit is recombinant human CD7 antigen fused to PE. Based on FCM and/or ELISA, CD7-PE CAR TEST Kit reacts with Anti-human CD7 antibody and their chimerism.

Background

T-Cell Antigen CD7 is a single-pass type I membrane protein that that belongs to the the immunoglobulin superfamily. Human CD7 is synthesized as a 240 amino acid precursor that contains a 25 amino acid signal sequence and a 215 amino acid mature chain with a Ig-like (immunoglobulin-like) domain. CD7 is normally expressed on all T-lymphocytes, NK-cells, pre-B lymphocytes and pleuripotent hematopoietic stem cells. CD7 plays an essential role in T-cell interactions, T-cell/B-cell interaction during early lymphoid development, T- and NK-cell activation and cytokine production. CD7 has been shown to interact with PIK3R1and SECTM1. However, the function of the CD7 protein in the immune system is still largely unknown.

Benefits

High lot-to-lot consistency

Application notes

Flow Cytometry Detection
(1) Take 5×10^5 test cells, wash them twice with pre-cooled FACS Buffer, and centrifuge at 1500 rpm for 5 minutes each time, Finally, resuspend with 100 μL FACS Buffer;
(2) Add 1 μL of Human CD7-PE solution to the cell suspension and mix well. Incubate in the dark at 2-8°C for 30 minutes
(3)After incubation, wash twice with pre-cooled FACS Buffer, then resuspend in 200 μL FACS Buffer for machine detection.
*FACS Buffer:1×PBS(pH7.4), 2%BSA

Dilution factors are presented in the form of a range because the optimal dilution is a function of many factors, such as antigen density, permeability, etc. The actual dilution used must be determined empirically.