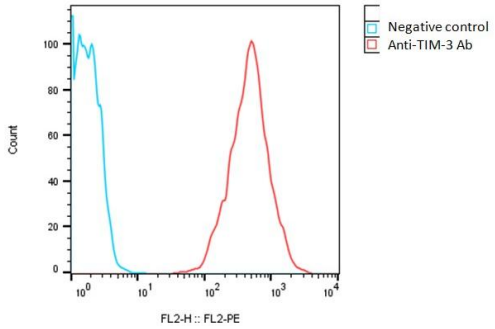
Human TIM-3-CHO-K1 Stable Cell Line
Catalog Number: C3057

SPECIFICATIONS

Catalog Number	C3057
Cell Line Name	Human TIM-3-CHO-K1 stable cell line
Accession Number	NP_116171.3
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 TIM-3 expression on human TIM-3-CHO-K1 stable cells using a PE-anti-human TIM-3 antibody (BioLegend, Cat. #345005).



BACKGROUND

T-cell immunoglobulin and mucin domain 3 (TIM-3, HAVCR2) is a type I transmembrane protein of the TIM family of proteins that functions as a critical negative regulator in the immune system, acting as a negative checkpoint in peripheral tolerance and innate immune and inflammatory responses. TIM-3 is primarily expressed on immune cells, including T cells, natural killer (NK) cells, dendritic cells, and macrophages. TIM-3 acts as a negative regulator of T cell function by inducing T cell exhaustion or apoptosis, thereby dampening excessive immune responses. It also plays a role in regulating the balance between pro-inflammatory and anti-inflammatory responses. In cancer, TIM-3 is upregulated in tumor-infiltrating lymphocytes and often co-expressed with other immune checkpoint molecules, leading to T cell exhaustion and impaired anti-tumor immune responses. TIM-3 has emerged as a promising therapeutic target for cancer immunotherapy with studies investigating the efficacy of TIM-3 blockade as a monotherapy or in combination with other immunotherapies, such as anti-PD-1/PD-L1 antibodies. Blocking TIM-3 signaling may help restore T cell function and enhance anti-tumor immune responses.

References

Anderson AC. Tim-3: an emerging target in the cancer immunotherapy landscape. *Cancer Immunol Res.***2**:393-398. 2014.

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