

# Mouse B7-H4-CHO-K1 Stable Cell Line

Catalog Number: C3054

### **SPECIFICATIONS**

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Cell Line Name Mouse B7-H4-CHO-K1 stable cell line

Accession Number NP\_848709.2 Host Cell Adherent CHO-K1

 Quantity
 Two vials of frozen cells  $(2x10^6 \text{ per vial})$  

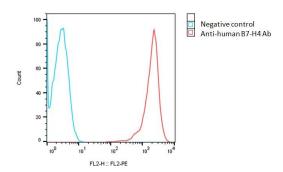
 Culture Medium
 DMEM with 10% FBS,  $4\mu\text{g/ml}$  puromycin

Freezing Medium 90% FBS and 10% DMSO

Storage Liquid nitrogen

#### DATA

Detection of mouse B7-H4 expression on mouse B7-H4-CHO-K1 stable cells using an anti-human B7-H4 antibody, followed by staining with PE-anti-mouse IgG antibody.



## BACKGROUND

B7-H4, also known as VTCN1 (V-set domain-containing T-cell activation inhibitor 1, B7X, B7H4, and B7S1), belongs to the B7 family of immune regulatory proteins expressed on the surface of antigen-presenting cells (APCs), such as dendritic cells, macrophages, and B cells. Its expression is induced by pro-inflammatory cytokines and can be upregulated in response to immune activation. The main function of B7-H4 is to negatively regulate T-cell-mediated immune responses by inhibiting the proliferation, cytokine secretion, and cell cycle of T cells. B7-H4 expression has been observed in various tumor types, including breast, ovarian, lung, gastric, and pancreatic cancers. Its upregulation in these tumors has been associated with poor prognosis and reduced patient survival. The overexpression of B7-H4 in cancer cells is thought to contribute to immune evasion by suppressing the anti-tumor immune response.

#### References

Wang, Jia-Yu, and Wei-Peng Wang. B7-H4, a promising target for immunotherapy." Cellular immunology .347:104008. 2020.

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Tringler, Barbara et al. B7-h4 is highly expressed in ductal and lobular breast cancer. Clinical Cancer Research. 5: 1842-8. 2005.