

Catalog	Unit
TBS10402-0.5MG	0.5 mg
TBS10402-1MG	1 mg
TBS10402-5MG	5 mg

Description

Tribio in vivo Anti-Mouse VTCN1/B7-H4 Monoclonal Antibody is a highly specific mouse monoclonal antibody targeting mouse VTCN1 (B7-H4). It specifically recognizes and can block the biological activity of B7-H4 by interfering with its inhibitory signaling on T cells, making it suitable for research applications such as ELISA, flow cytometry, and functional neutralization assays. B7-H4 is an immune checkpoint protein that negatively regulates T cell activation and proliferation, playing a key role in maintaining immune tolerance and modulating immune responses. It is overexpressed in various tumors, where it contributes to immune evasion, tumor progression, and poor prognosis. Therefore, this antibody is widely used in studies of tumor immunology, autoimmune diseases, and immune regulation, including research in ovarian, breast, renal, and lung cancers.

Product Details

Applications:	ELISA, FCM, Neutralization
Species reactivity:	Mouse
Host:	Mouse
Isotype:	IgG2a, kappa
Target:	V-set domain containing T-cell activation inhibitor 1, B7 homolog 4, B7-H4, Immune costimulatory protein B7-H4, Protein B7S1, T cell costimulatory molecule B7x, Vtcn1, B7h4.
Uniprot:	Q7TSP5
Concentration:	3 mg/ml
Purity:	>95%
Formulation:	Liquid
Storage buffer:	0.01M PBS, pH 7.4.
Purification:	Protein A/G purified from cell culture supernatant.
Clonality:	Monoclonal
Storage:	Store -20°C up to 12 months, and -80°C for long term. Avoid repeated freeze-thaw cycles.

Data Image

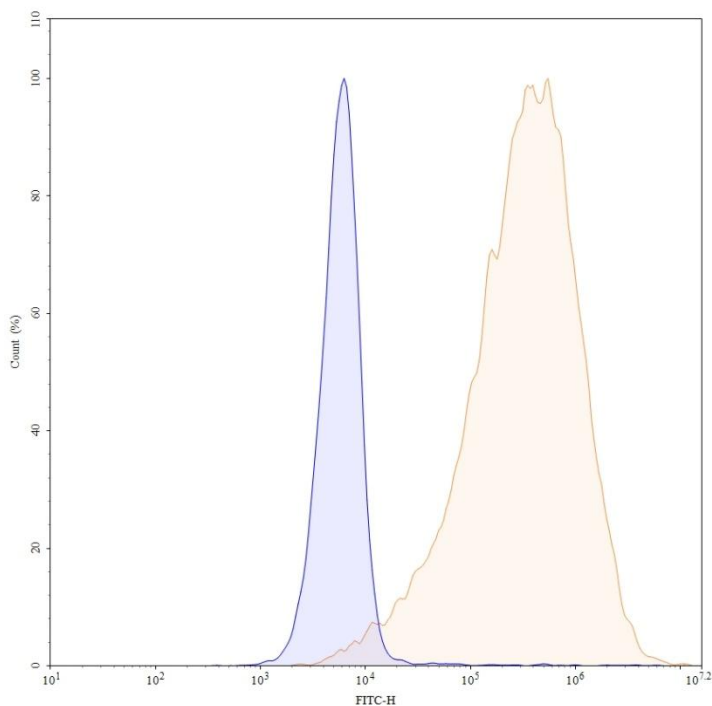


Fig. 1. Flow-cytometry using anti-human VTCN1 antibody.

Un-transfected cells (blue Histogram) and Transfected cells (Yellow Histogram) were stained with an anti-human VTCN1 monoclonal antibody at a concentration of 5 $\mu\text{g}/\text{ml}$ for 30 mins at RT. After washing, bound antibody was detected using a Goat Anti-Mouse IgG H&L Polyclonal Antibody, FITC and cells analyzed on a NovoCyte Flow Cytometer.

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