

Mouse Anti-Human B7-H4, Biotin Conjugated mAb

Catalog No: #CM049

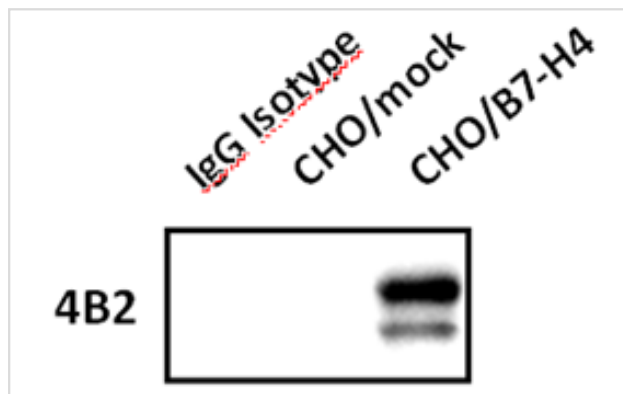
Package Size: #CM049-1 25ug #CM049-2 100ug

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

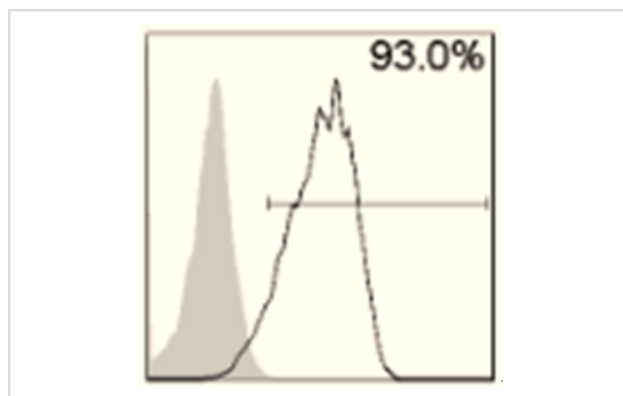
Description

Product Name	Mouse Anti-Human B7-H4, Biotin Conjugated mAb
Host Species	Mouse
Clonality	Monoclonal
Clone No.	2B7
Isotype	Mouse IgG1, κ
Applications	FC/Block
Species Reactivity	Hu
Immunogen Description	Human peripheral blood T cells
Formulation	Lyophilized from a 0.2 μ m filtered solution in phosphate buffered saline (PBS) and reconstitute with sterile PBS
Storage	Store protected from light at 2-8°C. Do not freeze. The expiration date is indicated on the vial label.

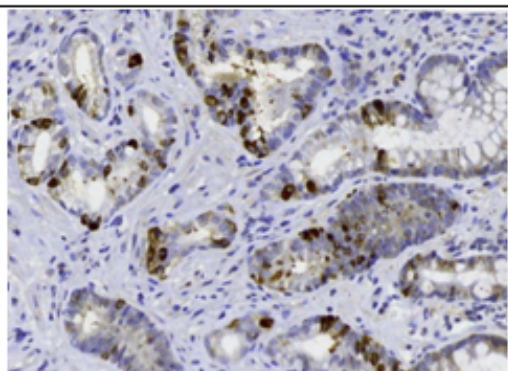
Images



Western blot shows lysates of B7-H4 transected CHO cell line and CHO/mock cell line. PVDF membrane was probed with 10 μ g/mL of anti-Human B7-H4 antibody followed by HRP-conjugated anti- Mouse IgG Secondary Antibody. B7-H4(4B2) recognized CHO/B7-H4 transfected cells by Western blot but not bind with CHO/mock cells.



Flow cytometric analysis of B7-H4 expression on 293T/B7-H4 transfected cells. 293T/B7-H4 transfected cells were stained with either Mouse IgG1, κ Isotype Control or Mouse Anti-Human B7-H4 antibody. In the control reactivity, 293T/mock cells were stained with Mouse Anti-Human B7-H4 antibody. Fluorescence histograms showing the expression of B7-H4 were derived from events with the forward and side light-scatter characteristics of viable cells. Flow cytometric analysis was performed using a Beckman FC 500 Flow Cytometer System.



B7-H4 in Human gastric cancer. B7-H4 was detected in immersion fixed paraffinembedded sections of human gastric cancer using mouse anti Human B7-H4 monoclonal. Antibody t 5 µg/mL overnight at 4 C. Tissue was stained using the anti mouse HRP DAB Cell & Tissue Staining Kit and counterstained with hematoxylin (blue).

Product Description

V-set domain-containing T-cell activation inhibitor 1, also known as B7X, B7H4, B7S1, and VTCN1, is a single-pass type membrane protein belonging to the B7 family of costimulatory proteins. These proteins are expressed on the surface of antigen-presenting cells and interact with ligands on T lymphocytes. They provide costimulatory signals that regulate T cell responses. A soluble form of B7H4 has also been detected. B7X / VTCN1 / B7H4 negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. When expressed on the cell surface of tumor macrophages, B7X / VTCN1 / B7H4 plays an important role, together with regulatory T-cells(Treg), in the suppression of tumor-associated antigen-specific T-cell immunity. B7X / VTCN1 / B7H4 is also involved in promoting epithelial cell transformation. This membrane protein can be up-regulated by IL6 / interleukin-6 and IL10 / interleukin-10 and inhibited by CSF2 / GM-CSF and IL4 / interleukin-4 on antigen-presenting cells.

Note: This product is for in vitro research use only