

### 36-3399: Anti-B7-H4 (Immuno-Inhibitory Protein) Monoclonal Antibody(Clone: B7H4/1788)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	B7H4/1788
<b>Application :</b>	ELISA,FACS,IF,WB,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	VTCN1
<b>Gene ID :</b>	79679
<b>Uniprot ID :</b>	Q7Z7D3
<b>Alternative Name :</b>	B7 family member, H4; B7 homolog 4; B7 superfamily member 1; B7-H4; B7S1; Immune costimulatory protein B7-H4; T-cell costimulatory molecule B7x; V-set domain-containing T-cell activation inhibitor 1; VCTN1
<b>Isotype :</b>	Mouse IgG2a, kappa
<b>Immunogen Information :</b>	A recombinant fragment of human B7-H4 protein (exact sequence is proprietary)

#### Description

T cell activation and immune function are regulated by the innate immune system through positive and negative costimulatory proteins. One such protein, B7-H4 (B7-homolog 4), belongs to the B7 immunoglobulin superfamily of ligand-lymphocyte interacting proteins. Expressed primarily on the membrane of lymphoid cells, B7-H4 is an immuno-inhibitory protein that interacts with receptors on the surface of T lymphocytes, thus mediating cellular and humoral immune responses. Overexpression of the B7-H4 protein is associated with certain malignancies, including ovarian and breast cancer, as its interaction with T cells suppresses tumor-associated immunity. Current research suggests that, similar to Mucin 16 (CA-125), B7-H4 may be a useful biomarker for the early detection of ovarian cancer.

#### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

#### Application Note

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA); Flow Cytometry (1-2ug/million cells in 0.1ml); Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT); (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes),

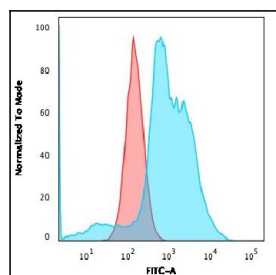


Fig. 1: Flow Cytometric Analysis of SKBR-3 cells using B7-H4 Mouse Monoclonal Antibody (B7H4/1788) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

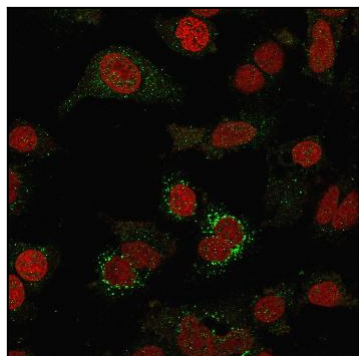


Fig. 2: Immunofluorescence staining of SKBR-3 cells using B7-H4 Mouse Monoclonal Antibody (B7H4/1788) followed by goat anti-Mouse IgG conjugated to CF488 (green). Membrane stained with Phalloidin (Red).

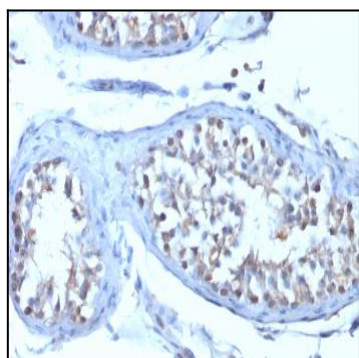


Fig. 3: Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with B7-H4 Mouse Monoclonal Antibody (B7H4/1788).

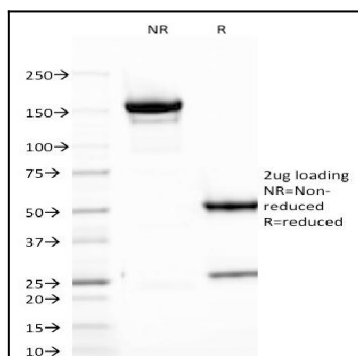


Fig. 4: SDS-PAGE Analysis Purified B7-H4 Mouse Monoclonal Antibody (B7H4/1788).

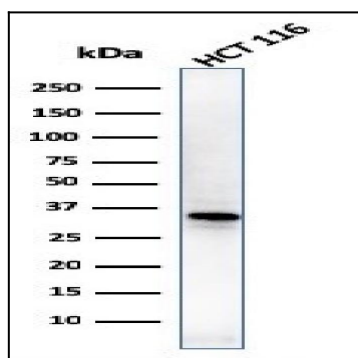


Fig. 5: Western Blot of HCT116 cell lysates using B7-H4 Mouse Monoclonal Antibody (B7H4/1788).