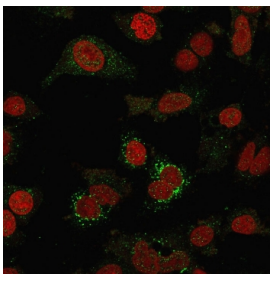
B7-H4 Antibody / VTCN1 [clone B7H4/1788] (V8175)

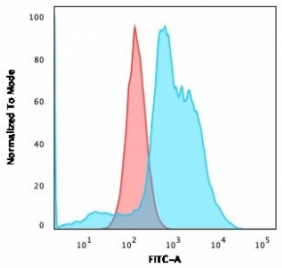
Catalog No.	Formulation	Size
V8175-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8175-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8175SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

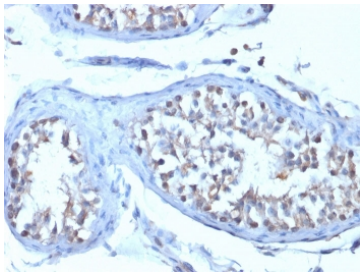
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	B7H4/1788
Purity	Protein G affinity chromatography
UniProt	Q7Z7D3
Localization	Cell surface, cytoplasmic
Applications	ELISA (order BSA-free Format For Coating) : Flow Cytometry : 1-2ug/10^6 cells in 0.1ml Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This B7-H4 antibody is available for research use only.



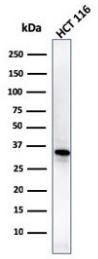
Immunofluorescent staining of fixed human SK-BR-3 cells with B7-H4 antibody (clone B7H4/1788, green) and Reddot nuclear stain (red).



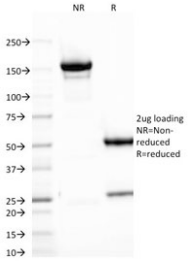
Flow cytometry testing of fixed human SK-BR-3 cells with B7-H4 antibody (clone B7H4/1788); Red=isotype control, Blue= B7-H4 antibody.



IHC staining of FFPE human testicular carcinoma with B7-H4 antibody (clone B7H4/1788). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human HCT-116 cell lysate with B7-H4 antibody. Predicted molecular weight: ~31 kDa.



SDS-PAGE analysis of purified, BSA-free B7-H4 antibody (clone B7H4/1788) as confirmation of integrity and purity.

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.

Application Notes

Optimal dilution of the B7-H4 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein was used as the immunogen for this B7-H4 antibody.

Storage

Store the B7-H4 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).