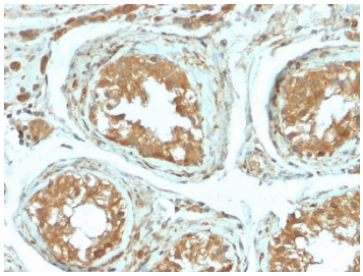
Recombinant B7-H4 Antibody / VTCN1 [clone B7H4/2652R] (V7367)

Catalog No.	Formulation	Size
V7367-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7367-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7367SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7367IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

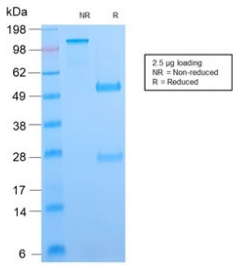
Recombinant RABBIT MONOCLONAL

Bulk quote request

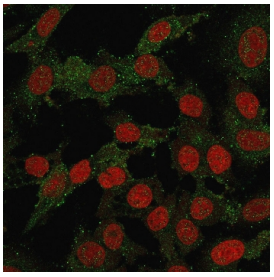
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	B7H4/2652R
Purity	Protein A affinity
UniProt	Q7Z7D3
Localization	Cytoplasm, plasma membrane
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant B7-H4 antibody is available for research use only.



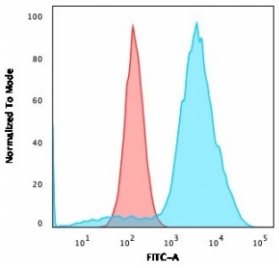
IHC testing of FFPE human testicular carcinoma with recombinant B7-H4 antibody (clone B7H4/2652R). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant B7-H4 antibody (clone B7H4/2652R) as confirmation of integrity and purity.



Immunofluorescent staining of permeabilized human SKBR-3 cells with recombinant B7-H4 antibody (clone B7H4/2652R, green) and Reddot nuclear stain (red).



Flow cytometry testing of permeabilized human SKBR-3 cells with recombinant B7-H4 antibody (clone B7H4/2652R); Red=isotype control, Blue= recombinant B7-H4 antibody.

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 recombinant H7-B4 antibody should be determined by the researcher.

Immunogen

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

Storage

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