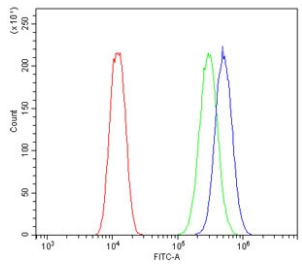
B7H4 Antibody / VTCN1 (RQ5561)

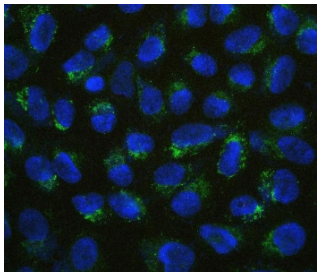
Catalog No.	Formulation	Size
RQ5561	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

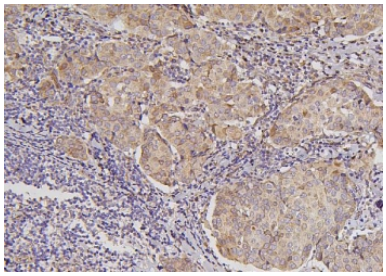
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q7Z7D3
Applications	Western Blot : 0.25-0.5ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunofluorescence : 2-4ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This B7H4 antibody is available for research use only.



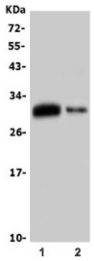
Flow cytometry testing of human U-2 OS cells with B7H4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= B7H4 antibody.



Immunofluorescent staining of FFPPE human U-2 OS cells with B7H4 antibody (green) and DAPI nuclear stain (blue). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE human breast cancer with B7H4 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Western blot testing of 1) human U-2 OS and 2) mouse thymus lysate with B7H4 antibody. Predicted molecular weight: ~31 kDa.

Description

V-set domain-containing T-cell activation inhibitor 1 is a protein that in humans is encoded by the VTCN1 gene. It is mapped to 1p13.1-p12. This gene encodes a protein belonging to the B7 costimulatory protein family. Proteins in this family are present on the surface of antigen-presenting cells and interact with ligand bound to receptors on the surface of T cells. Studies have shown that high levels of the encoded protein has been correlated with tumor progression. A pseudogene of this gene is located on chromosome 20. Multiple transcript variants encoding different isoforms have been found for this gene.

Application Notes

Optimal dilution of the B7H4 antibody should be determined by the researcher.

Immunogen

A human recombinant protein (amino acids T57-A258) was used as the immunogen for the B7H4 antibody.

Storage

After reconstitution, the B7H4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.