Datasheet for ABIN7602060

anti-VTCN1 antibody (AA 57-258)

Go to Product page

Overview

Quantity:	100 µg
Target:	VTCN1
Binding Specificity:	AA 57-258
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VTCN1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-B7H4/VTCN1 Antibody Picoband®
Immunogen:	E.coli-derived human B7H4/VTCN1 recombinant protein (Position: T57-A258).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-B7H4/VTCN1 Antibody Picoband® (ABIN7602060). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	VTCN1
Alternative Name:	VTCN1 (VTCN1 Products)
Background:	Synonyms: V-set domain-containing T-cell activation inhibitor 1, B7 homolog 4, B7-H4, B7h.5, Immune costimulatory protein B7-H4, Protein B7S1, T-cell costimulatory molecule B7x, VTCN1, B7H4, UNQ659, PRO1291 Tissue Specificity: Overexpressed in breast, ovarian, endometrial, renal cell (RCC) and non-small-cell lung cancers (NSCLC). Expressed on activated T- and B-cells, monocytes and dendritic cells, but not expressed in most normal tissues (at protein level). Widely expressed, including in kidney, liver, lung, ovary, placenta, spleen and testis. Background: 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.
Molecular Weight:	31 kDa
Gene ID:	79679
UniProt:	Q7Z7D3

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL Immunocytochemistry/Immunofluorescence, 2 µg/mL Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells ELISA, 0.1-0.5 µg/mL 1. Krambeck, A. E., Thompson, R. H., Dong, H., Lohse, C. M., Park, E. S., Kuntz, S. M., Leibovich, B. C., Blute, M. L., Cheville, J. C., Kwon, E. D. B7-H4 expression in renal cell carcinoma and tumor vasculature: associations with cancer progression and survival. Proc. Nat. Acad. Sci. 103: 10391-10396, 2006. 2. Kryczek, I., Zou, L., Rodriguez, P., Zhu, G., Wei, S., Mottram, P., Brumlik, M., Cheng, P., Curiel, T., Myers, L., Lackner, A., Alvarez, X., Ochoa, A., Chen, L., Zou, W. B7-H4 expression identifies a novel suppressive macrophage population in human ovarian carcinoma. J. Exp. Med. 203: 871-881, 2006.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.