

**VTCN1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9802c****Specification**

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**VTCN1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q7Z7D3](#)**VTCN1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 79679**Other Names**

V-set domain-containing T-cell activation inhibitor 1, B7 homolog 4, B7-H4, B7h5, Immune costimulatory protein B7-H4, Protein B7S1, T-cell costimulatory molecule B7x, VTCN1 {ECO:0000312|EMBL:EAW566721}

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**VTCN1 Antibody (Center) Blocking Peptide - Protein Information****Name** VTCN1 {ECO:0000312|EMBL:EAW56672.1}**Function**

Negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. When expressed on the cell surface of tumor macrophages, plays an important role, together with regulatory T- cells (Treg), in the suppression of tumor-associated antigen-specific T-cell immunity. Involved in promoting epithelial cell transformation.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein. Note=Expressed at the cell surface. A soluble form has also been detected. {ECO:0000255, ECO:0000269|PubMed:12818165, ECO:0000269|PubMed:15878339, ECO:0000269|PubMed:16782226}

**Tissue Location**

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

## **VTCN1 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **VTCN1 Antibody (Center) Blocking Peptide - Images**

## **VTCN1 Antibody (Center) Blocking Peptide - Background**

VTCN1 belongs to the B7 family (see CD80; MIM 112203) of costimulatory proteins. These proteins are expressed on the surface of antigen-presenting cells and interact with ligands (e.g., CD28; MIM 186760) on T lymphocytes.

## **VTCN1 Antibody (Center) Blocking Peptide - References**

Xue, Q., et al. Stem Cells Dev. 19(1):27-38(2010) Cheng, L., et al. Int. J. Gynecol. Cancer 19(9):1481-1486(2009) Hinks, A., et al. Arthritis Rheum. 60(1):258-263(2009) Zhang, J., et al. BMC Cancer 9, 394 (2009) :Thompson, R.H., et al. Cancer Res. 68(15):6054-6058(2008) Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003) Zang, X., et al. Proc. Natl. Acad. Sci. U.S.A. 100(18):10388-10392(2003)