

Datasheet for 600-401-FX5**VTCN1 Antibody****Overview**

Description:	Anti-VTCN1 (RABBIT) Antibody - 600-401-FX5
Item No.:	600-401-FX5
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	T cell immunity plays a critical role in host immune surveillance of tumour cell growth and metastatic spread. VTCN1, also known as B7-H4, is a member of the B7 family of immune regulatory molecules. Expressed primarily on the membrane of lymphoid cells, VTCN1 is an immunoinhibitory protein that interacts with receptors on the surface of T lymphocytes, thus mediating cellular and humoral immune responses. Overexpression of VTCN1 is associated with certain malignancies, including ovarian and breast cancer, which may be a mechanism by which tumour cells suppress T cell immunity and facilitate tumour progression. VTCN1 may thus be a useful biomarker for the early detection of ovarian cancer.
Synonyms:	VTCN1 Antibody, B7X, B7H4, B7S1, B7-H4, B7h.5, VCTN1, PRO1291, UNQ659/PRO1291, V-set domain-containing T-cell activation inhibitor 1, Immune costimulatory protein B7-H4
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	VTCN1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti- VTCN1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the internal region of human VTCN1.

Purity/Specificity: Anti-VTCN1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with VTCN1 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q7Z7D3](#)
- [GeneID - 79679](#)
- [NCBI - NP_001240778.1](#)

Application Details

Tested Applications: ELISA, WB

Application Note: Anti-VTCN1 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 31 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/ml by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

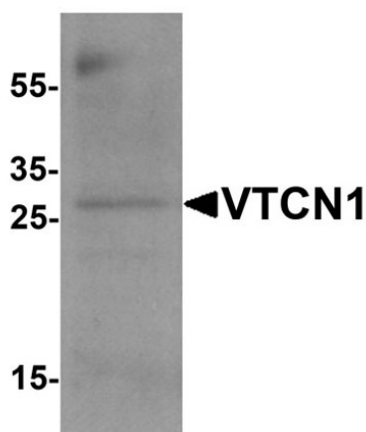
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot analysis of VTCN1.

Load: EL4 cell lysate.

Primary Antibody: VTCN1 antibody at 1 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.