

B7-H4 Polyclonal Antibody

Catalog NumberPA5-34501

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Western Blot (WB)	Dilution *1-2 µg/mL
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	An 18 amino acid peptide near the center of human VTCN1		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

Product specific information

A suggested positive control is EL4 cell lysate. PA5-34501 can be used with blocking peptide PEP-1544.

Background/Target Information

B7-H4 (B7x, VTCN1) a costimulatory protein which is reported to function as a negative regulator of T-cell mediated immunity. Although B7-H4 binds an unknown receptor, it is thought to deliver an inhibitory signal to T-cells preventing their proliferation, cell cycle progression and interleukin-2 production. B7-H4 deficient mice are only minimally affected; suggesting B7-H4 is important in the fine tuning of the T-cell mediated immune response. B7-H4 is expressed on activated T-cells, B-cells, monocytes and dendritic cells. Aberrant expression has been associated with cancers of the lung, breast and ovary in humans. B7-H4 is expressed primarily on the membrane of lymphoid cells, and as an immunoinhibitory protein that interacts with receptors on the surface of T lymphocytes, it is involved in mediating cellular and humoral immune responses. Overexpression of B7-H4 is associated with certain malignancies, including ovarian and breast cancer, which may be a mechanism by which tumor cells suppress T cell immunity and facilitate tumor progression. Further, VTCN1 may be a useful biomarker for the early detection of ovarian cancer and Renal Cell Carcinoma (RCC).

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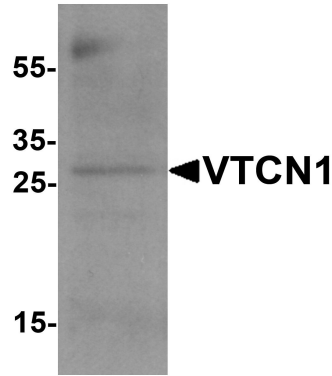
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Product Images For B7-H4 Polyclonal Antibody

B7-H4 Antibody (PA5-34501) in WB
Western Blot analysis of VTCN1 in EL4 cell lysate with B7-H4 Polyclonal Antibody (Product # PA5-34501) at 1 µg/mL.



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