

## Monoclonal Antibody to VTCN1 / B7H4 - PE

<b>Alternate names:</b>	B7-H4, B7S1, B7h.5, B7x, UNQ659/PRO1291, V-set domain-containing T-cell activation inhibitor 1
<b>Catalog No.:</b>	AM05618RP-N
<b>Quantity:</b>	100 Tests
<b>Background:</b>	<p>B7-H4 is 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 could be a useful prognostic marker in Renal Cell Carcinoma (RCC).</p>
<b>Uniprot ID:</b>	<a href="#">Q7Z7D3</a>
<b>NCBI:</b>	<a href="#">NP_078902.2</a>
<b>GeneID:</b>	<a href="#">79679</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	MIH43
<b>Immunogen:</b>	Human B7-H4
<b>Format:</b>	<p><b>State:</b> Lyophilised purified IgG fraction. <b>Purification:</b> Affinity Chromatography on Protein G <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with 1.0 ml distilled water</p>
<b>Applications:</b>	<p><b>Flow Cytometry:</b> Use 10 µl of neat antibody to label 1x10<sup>6</sup> cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Specificity:</b>	<p>This antibody recognises B7-H4, also known as B7x. <b>Species:</b> Human. Other species not tested.</p>
<b>Storage:</b>	<p>Prior to and following reconstitution store the antibody at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Shelf life: one year from despatch.</p>

**General Readings:** 1. Krambeck AE, Thompson RH, Dong H, Lohse CM, Park ES, Kuntz SM, et al. B7-H4 expression in renal cell carcinoma and tumor vasculature: associations with cancer progression and survival. Proc Natl Acad Sci U S A. 2006 Jul 5;103(27):10391-6. Epub 2006 Jun 23. PubMed PMID: 16798883.

**Pictures:** Flow Cytometry: AM05618RP-N B7-H4 antibody staining of Human peripheral blood monocytes.

