Datasheet for ABIN7566031

# VTCN1 Protein (AA 29-258) (Fc Tag)

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## Overview

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| Quantity: | 100 µg |
| Target: | VTCN1 |
| Protein Characteristics: | AA 29-258 |
| Origin: | Human |
| Source: | CHO Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This VTCN1 protein is labelled with Fc Tag. |

## Product Details

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| Purpose: | B7-H4 (human):Fc (human) (rec.) |
| Cross-Reactivity: | Human |
| Characteristics: | The extracellular domain of human B7-H4 (aa 29-258) is fused to the N-terminus of the Fc region of human IgG1. |
| Purity: | >98 % (SDS-PAGE) |
| Sterility: | Sterile filtered |
| Endotoxin Level: | <0.06EU/µg protein (LAL test, Lonza). |
| Biological Activity Comment: | Measured by the ablility to inhibit anti-CD3-induced proliferation of stimulated human T cells. Human T lymphocytes cultured for 72 hours with PHA were incubated for an additional 3 days in 96 well place coated with 500ng/ml anti-CD3 and 10µg/ml human B7H4/Fc. The presence of |

## Product Details

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| | human B7H4/Fc at 10μg/ml inhibited anti CD3 response by 30-50%. Optimal dilutions should be determined by each laboratory for each application. |

## Target Details

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| Target: | VTCN1 |
| Alternative Name: | B7-H4 (VTCN1 Products) |
| Background: | V-set Domain-containing T Cell Activation Inhibitor 1, VTCN1, B7h.5, Immune Costimulatory Protein B7-H4, T Cell Costimulatory Molecule B7x, Protein B7S1<br>B7-H4 is a B7 family member that negatively regulates T cell immunity by inhibiting of T cell proliferation, cytokine production, and cell cycle progression. In vitro, B7-H4 inhibits CD4+ and CD8+ T cell proliferation, cytokine production, and generation of alloreactive cytotoxic T-cells (CTLs). In vivo, blockade of endogenous B7-H4 by specific monoclonal antibody promotes T cell responses. B7-H4 ia an important negative regulator of innate immunity through growth inhibition of neutrophils. B7-H4 is expressed on some tumor cancer cells. The role of B7-H4 in tumor progression may be to transform precancerous cells and then protect them from immunosurveillance. |
| NCBI Accession: | NP_078902 |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Buffer: | Lyophilized from 0.2μm-filtered solution in PBS. |
| Handling Advice: | Avoid freeze/thaw cycles.Centrifuge lyophilized vial before opening and reconstitution. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Short Term Storage: +4°C<br>Long Term Storage: -20°C<br>Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C. |