

## Active Recombinant Mouse VTCN1, MlgG2a Fc-tagged

**Cat. No.** VTCN1-533H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The extracellular domain of mouse B7-H4(NP_848709.2)(Phe29-Pro258) is fused to the N-terminus of the Fc region of mouse IgG2a.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 29-258 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | This gene encodes a protein belonging to the B7 costimulatory protein family. Proteins in this family are present on the surface of antigen-presenting cells and interact with ligand bound to receptors on the surface of T cells. Studies have shown that high levels of the encoded protein has been correlated with tumor progression. A pseudogene of this gene is located on chromosome 20. Multiple transcript variants encoding different isoforms have been found for this gene |
| <b>Form</b>             | Lyophilized from 0.2µm-filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Bio-activity</b>     | Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 54 KDa (monomer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | Phe29-Pro258                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                       |                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | <0.06 eu/μg="" as="" determined="" by="" la="" test="">                                                                             |
| <b>Purity</b>         | ≥98%, by SDS-PAGE under reducing conditions.                                                                                        |
| <b>Stability</b>      | 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. |
| <b>Reconstitution</b> | Reconstitute at 100μg/ml in sterile PBS.                                                                                            |
| <b>Warning</b>        | Avoid freeze/thaw cycles.                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Vtcn1 V-set domain containing T cell activation inhibitor 1 [ Mus musculus ]                                                                                                                                                     |
| <b>Official Symbol</b> | VTCN1                                                                                                                                                                                                                            |
| <b>Synonyms</b>        | VTCN1; V-set domain containing T cell activation inhibitor 1; V-set domain containing T-cell activation inhibitor 1; t cell costimulatory molecule B7x; immune costimulatory protein B7-H4; B7x; B7h4; B7s1; BC032925; MGC41287; |
| <b>Gene ID</b>         | 242122                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_178594                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_848709                                                                                                                                                                                                                        |
| <b>Function</b>        | receptor binding;                                                                                                                                                                                                                |

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