



# CD276 [B7-H3] Recombinant Protein

Cat. No.: 90-440



## Ψ Specifications

|                             |   |
|-----------------------------|---|
| <b>SPECIES:</b>             | Mouse   |
| <b>SOURCE SPECIES:</b>      | CHO cells   |
| <b>SEQUENCE:</b>            | The extracellular domain of mouse CD276 [B7-H3] (aa 30-248) is fused to the N-terminus of the Fc region of mouse IgG2a. |
| <b>FUSION TAG:</b>          | Fc Tag  |
| <b>TESTED APPLICATIONS:</b> |   |
| <b>APPLICATIONS:</b>        | This recombinant proteins is for research use only.   |

## Ψ Properties

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|----------------------------|---|
| <b>PURITY:</b>             | ≥98% (SDS-PAGE).<br>Endotoxin level is less than 0.06EU/ µg protein (LAL test; Lonza).  |
| <b>PHYSICAL STATE:</b>     | Lyophilized   |
| <b>BUFFER:</b>             | Lyophilized from 0.2µm-filtered solution in PBS. Reconstitute at 100 µg/ml in sterile PBS.  |
| <b>STORAGE CONDITIONS:</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. |

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|-------------------------|-----------|
| <b>OFFICIAL SYMBOL:</b> | Cd276     |
| <b>ALTERNATE NAMES:</b> | B7-H3     |
| <b>ACCESSION NO.:</b>   | NP_598744 |
| <b>PROTEIN GI NO.:</b>  | 19527206  |
| <b>GENE ID:</b>         | 102657    |

## Background and References

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| <b>BACKGROUND:</b> | <p>CD276 (B7-H3) is a member of the B7/CD28 superfamily of costimulatory molecules serving as an accessory modulator of T cell response. B7 family molecules, which are expressed on antigen-presenting cells and display extracellular regions containing immunoglobulin (Ig) variable (V)- and constant (C)-like domains, are known to modulate T cell receptor (TCR)-mediated T cell activation by providing co-signals that are either stimulatory or inhibitory. B7-H3 provides a stimulatory signal to T cells. However, recent studies suggest a negative regulatory role for B7-H3 in T cell responses. B7-H3 inhibited T cell proliferation mediated by antibody to T cell receptor or allogeneic antigen-presenting cells. B7-H3 is a negative regulator that preferentially affects T(H)1 responses. B7-H3 may play an important role in muscle-immune interactions, providing further evidence of the active role of muscle cells in local immunoregulatory processes. Recently, B7-H3 expression has also been found in a variety of different human cancers, including prostate cancer, clear cell renal cell carcinoma (ccRCC), non-small-cell lung cancer (NSCLC), pancreatic cancer, gastric cancer, ovarian cancer, colorectal cancer (CRC) and urothelial cell carcinoma. B7-H3 was expressed in some human cancers and correlated with poor outcome of cancer patients.</p> |
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