
Product Data Sheet

Product Name: CD276 Mouse

Cat. No.: GP26239

Batch No.: 1

Product Data

| | | | |
|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Sf9, Baculovirus cells. |
| Physical Appearance | solid | Shipping Condition | withIcePacks |
| Synonyms | CD276 antigen, Cd276, 6030411F23Rik, AU016588, B7h3, B7RP-2, B7 homolog 3, B7-H3. | | |
| Amino Acid Sequence | VEVQVSEDPV VALVDTDATL RCSFSPEPGF SLAQLNLIWQ LTDTKQLVHS FTEGRDQGSAYSNRTALFPD LLVQGNASLR LQRVRVTDEG SYTCFVSIQD FDSAAVSLQV AAPYSKPSMTLEPNKDLRPG NMVTITCSSY QGYPEAEVFW KDGQGVPLTG NVTTSQMANE RGLFDVHSVLRVVLGANGTY SCLVRNPVLQ QDAHGSVTIT GQPLTFPPEA HHHHHH | | |
| Formulation | CD276 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) containing 10% glycerol. | | |

Introduction

CD276, belongs to the B7 family of immunoregulatory transmembrane glycoproteins expressed by T cells. CD276 is a costimulatory molecule for T cell activation in addition to IFN-gamma production. Furthermore, CD276 upregulates BRCC3 expression, preventing DNA defects caused by 5-Fu. CD276 is correlated with TNM stage of NSCLC and act as a potential biomarker for NSCLC-derived MPEs. CD276 inhibits natural-killer mediated cell lysis in tumor cells, and act as a marker for detection of neuroblastoma cells. CD276 is implicated in the development of acute as well as chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. In addition, CD276 provides the placenta & fetus a proper immunological environment during the course of pregnancy.

Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC for longer periods of time. For long term storage it is recommended to add a carrier protein

Caution: Product has not been fully validated for medical applications. For research use only.

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(0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CD276 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 226 amino acids (29-248a.a.) and having a molecular mass of 24.7kDa. CD276 is fused to a 6 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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