



Recombinant Human CD276 antigen (CD276), partial (Active)

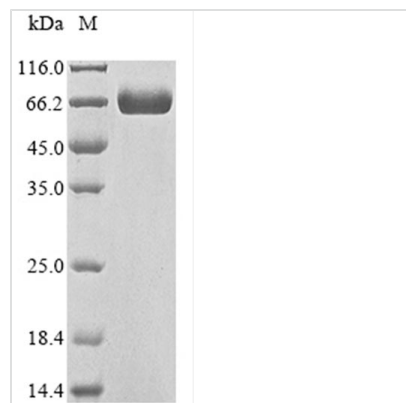
Product Code	CSB-MP733578HU
Relevance	May participate in the regulation of T-cell-mediated immune response. May play a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. May be involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. Could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy. Both isoform 1 and isoform 2 appear to be redundant in their ability to modulate CD4 T-cell responses. Isoform 2 is shown to enhance the induction of cytotoxic T-cells and selectively stimulates interferon gamma production in the presence of T-cell receptor signaling.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q5ZPR3
Storage Buffer	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
Product Type	Others
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CD276 at 2 µg/ml can bind Anti-CD276 rabbit monoclonal antibody, the EC50 of human CD276 protein is 1.961-2.243 ng/ml.
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	LEVQVPEDPVVALVGTDATLCCSFSPGFSLAQLNLIWQLTDTKQLVHSFAE GQDQGSAYANRTALFPDLLAQGNASRLRQVRVADEGSFTCFVSIRDFGSAA VSLQVAAPYSKPSMTLEPNKDLRPGDTVITICSSYQGYPEAEVFWQDGQGV LTGNVTTSQMANEQGLFDVHSILRVVLGANGTYSCLVRNPVLQQDAHSSVTIT PQRSPTG
Research Area	Cancer
Source	Mammalian cell
Gene Names	CD276
Expression Region	29-245aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal FC-Myc-tagged
Mol. Weight	53.4 kDa



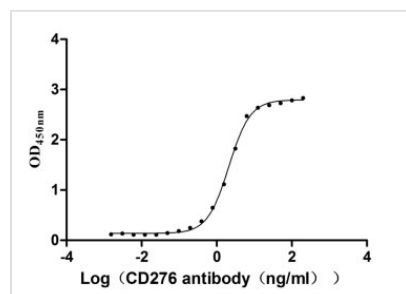
Protein Description

Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity

Measured by its binding ability in a functional ELISA. Immobilized CD276 at 2 µg/ml can bind Anti-CD276 rabbit monoclonal antibody, the EC₅₀ of human CD276 protein is 1.961-2.243 ng/ml.

Description

The DNA fragment corresponding to Leu29-Gly245 of the human CD276 antigen is fused with an FC-Myc-tag at the C-terminus and then is expressed in the mammalian cells. The resulting product is the recombinant human CD276 antigen. Its purity is over 90% measured by SDS-PAGE. On the gel, this protein was migrated to the molecular weight band of about 60-80 kDa. The endotoxin content of this CD276 protein is less than 1.0 EU/ug as determined by the LAL method. Its bioactivity has been validated through an ELISA. In the functional ELISA, this recombinant CD276 protein can bind to the anti-CD276 antibody, and the EC₅₀ is 1.961-2.243 ng/ml. This CD276 protein is available now.

CD276 is an immune checkpoint molecule in the epithelial-mesenchymal transition (EMT) pathway. It is involved in cell proliferation, invasion, and metastasis in malignancies. Overexpression of CD276 has been found in numerous solid tumors such as breast, colorectal, and lung cancer, and has been strongly linked to a poor clinical prognosis.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.