

CD276 Monoclonal Antibody

Catalog No: YM0115

Reactivity: Human

Applications: WB;IHC;IF;FCM;ELISA

Target: CD276

Fields: >>Cell adhesion molecules

Q5ZPR3

Q8VE98

Gene Name: CD276

Protein Name: CD276 antigen

Human Gene Id: 80381

Human Swiss Prot

Idiliali Swiss Fiol

No:

Mouse Swiss Prot

No:

Immunogen: Purified recombinant fragment of human CD276 expressed in E. Coli.

Specificity: CD276 Monoclonal Antibody detects endogenous levels of CD276 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Monoclonal, Mouse

Dilution: WB 1:500 - 1:2000. IHC 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA:

1:10000.. IF 1:50-200

Purification: Affinity purification

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 100kd

1/3



Cell Pathway: Cell adhesion molecules (CAMs);

P References : 1. Genome Res. 2004 Oct;14(10B):2121-7.

2. Cell Mol Immunol. 2005 Aug;2(4):307-11.

Background:

The protein encoded by this gene belongs to the immunoglobulin superfamily, and thought to participate in the regulation of T-cell-mediated immune response. Studies show that while the transcript of this gene is ubiquitously expressed in normal tissues and solid tumors, the protein is preferentially expressed only in tumor tissues. Additionally, it was observed that the 3' UTR of this transcript contains a target site for miR29 microRNA, and there is an inverse correlation between the expression of this protein and miR29 levels, suggesting regulation of expression of this gene product by miR29. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011],

Function:

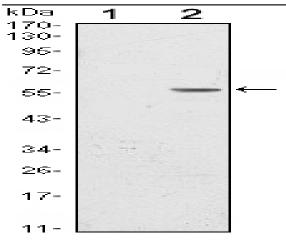
function:May participate in the regulation of T-cell-mediated immune response. May play a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. May be involved in the development of acute and chronic transplant 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.,induction:By LPS in monocytes and by ionomycin in T and B lymphocytes. Up-regulated in cells mediating rejection of human tr

Subcellular Location : Membrane; Single-pass type I membrane protein.

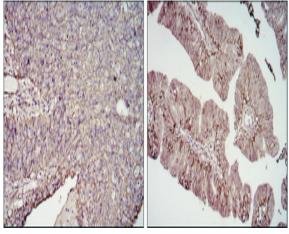
Expression:

Ubiquitous but not detectable in peripheral blood lymphocytes or granulocytes. Weakly expressed in resting monocytes. Expressed in dendritic cells derived from monocytes. Expressed in epithelial cells of sinonasal tissue. Expressed in extravillous trophoblast cells and Hofbauer cells of the first trimester placenta and term placenta.

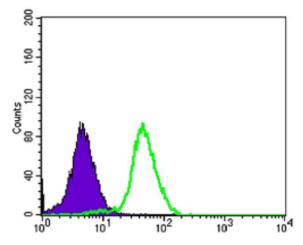
Products Images



Western Blot analysis using CD276 Monoclonal Antibody against HEK293 (1) and CD276-hlgGFc transfected HEK293 (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded cervical cancer tissues (left) and ovarian cancer tissues (right) with DAB staining using CD276 Monoclonal Antibody.



Flow cytometric analysis of PC-3 cells using CD276 Monoclonal Antibody (green) and negative control (purple).