Product Name: CD276 Mouse Monoclonal Antibody
Catalog #: AMM80893
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,ELISA,FC
Reactivity	Human,Mouse,Rat,Rabbit,Monkey
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:500,ICC 1:50-1:500,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	57kDa

Antigen Information

Gene Name	CD276
Alternative Names	B7H3; B7-H3; 4Ig-B7-H3; CD276
Gene ID	80381.0
SwissProt ID	Q5ZPR3
Immunogen	Purified recombinant fragment of human CD276 expressed in E. Coli.

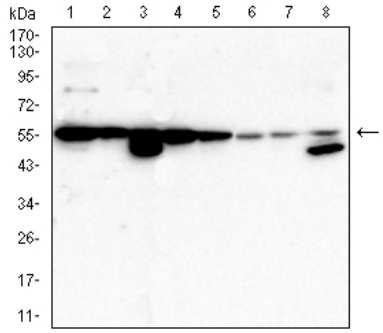
Background

Costimulatory B7 molecules (e.g., B7-1, or CD80; MIM 112203) signal through CD28 (MIM 186760) family molecules such as CD28, CTLA4 (MIM 123890), and ICOS (MIM 604558). 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

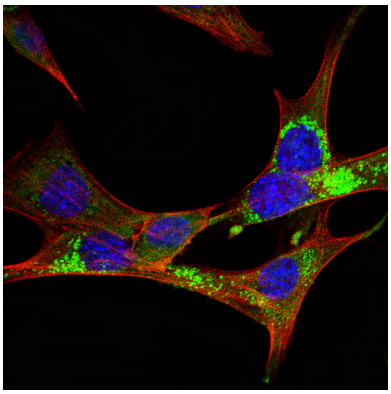
neuroblastoma cells. May be involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. Could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy. Both isoform 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.

Research Area

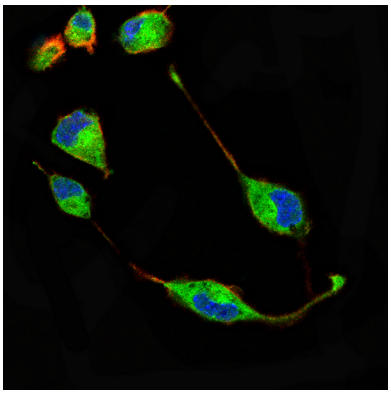
Image Data



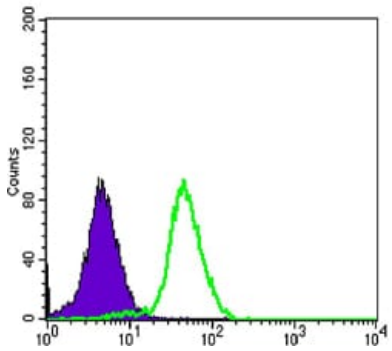
Western blot analysis using CD276 mouse mAb against NIH/3T3(1) NRK(2) C2C12(3) C6(4) L1210(5) COS7(6) CHO3D10(7) Hela(8)cell lysate.



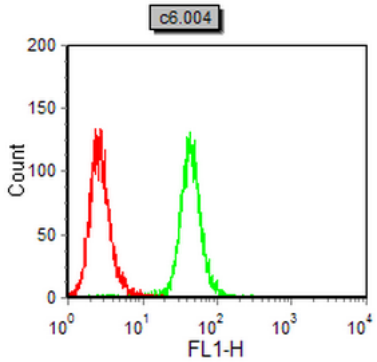
Immunofluorescence analysis of NIH/3T3 cells using CD276 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.



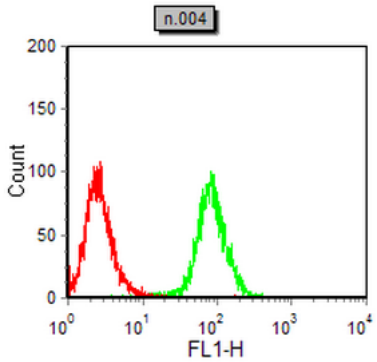
Immunofluorescence analysis of RSC-96 cells using CD276 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.



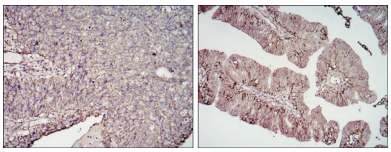
Flow cytometric analysis of PC-3 cells using CD276 mouse mAb (green) and negative control (purple).



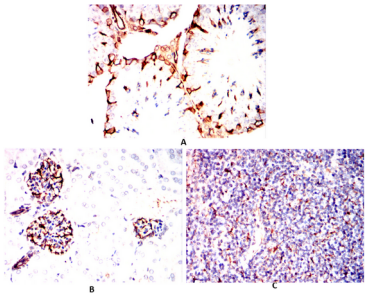
Flow cytometric analysis of C6 cells using CD276 mouse mAb (green) and negative control (red).



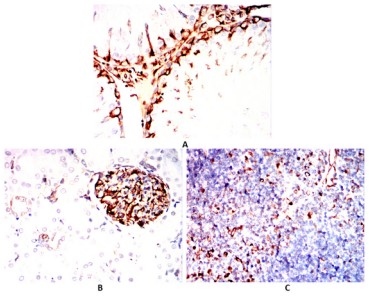
Flow cytometric analysis of NIH/3T3 cells using CD276 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues (left) and ovarian cancer tissues (right) using CD276 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Mouse testicles(A)Mouse kidney(B)Mouse thymus(C) using CD276 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat testicles(A)Rat kidney(B)Rat thymus(C) using CD276 mouse mAb with DAB staining.