

CD276 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8677b

Specification

CD276 Antibody - Product Information

Application	WB, IHC, IHC-P,E
Primary Accession	O5ZPR3
Reactivity	Human
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,κ
Calculated MW	57235

CD276 Antibody - Additional Information

Gene ID 80381

Other Names

CD276 antigen, 4Ig-B7-H3, B7 homolog 3, B7-H3, Costimulatory molecule, CD276, CD276, B7H3

Target/Specificity

This CD276 antibody is generated from a mouse immunized with a recombinant protein from the human region of human CD276.

Dilution

WB~~1:4000
IHC~~1:400
IHC-P~~1:25

Format

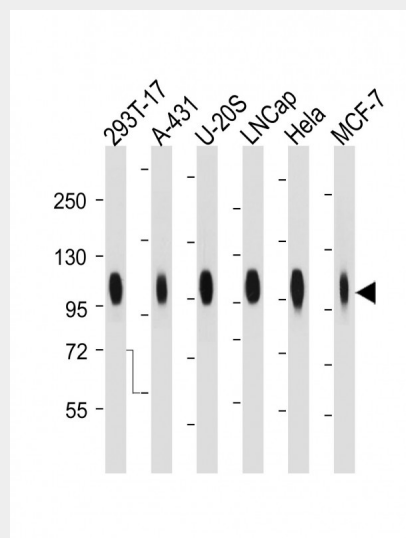
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CD276 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



All lanes : Anti-CD276 Antibody at 1:4000 dilution
Lane 1: 293T-17 whole cell lysate
Lane 2: A-431 whole cell lysate
Lane 3: U-20S whole cell lysate
Lane 4: LNCap whole cell lysate
Lane 5: HeLa whole cell lysate
Lane 6: MCF-7 whole cell lysate
Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 57 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded Human tonsil section using Pink1(Cat#AM8677B). AM8677B was diluted at 1:400 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB

CD276 Antibody - Protein Information

Name CD276

Synonyms B7H3

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.

Cellular Location

Membrane; Single-pass type I membrane protein

Tissue Location

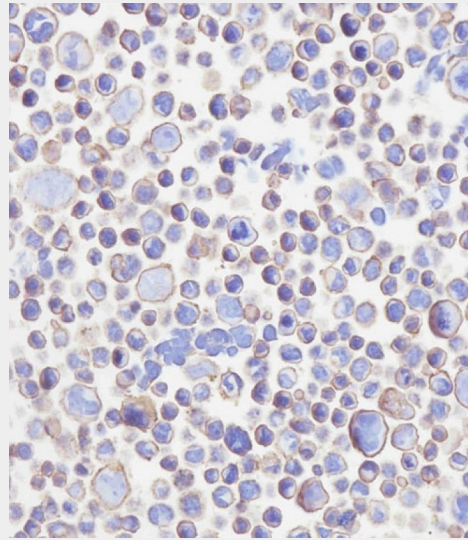
Ubiquitous but not detectable in peripheral blood lymphocytes or granulocytes. Weakly expressed in resting monocytes Expressed in dendritic cells derived from monocytes. Expressed in epithelial cells of sinonasal tissue. Expressed in extravillous trophoblast cells and Hofbauer cells of the first trimester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

CD276 Antibody - Protocols

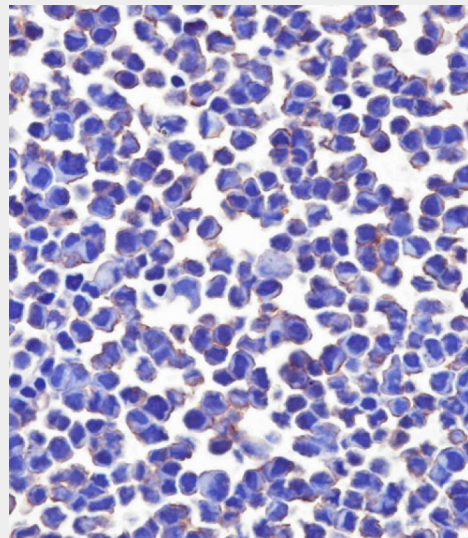
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

staining.



Immunohistochemical analysis of CD276 Antibody in 293T(untransfected) cell sections. Cell was fixed with formaldehyde and blocked with super block for 10 minutes at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody (1:500) for 1 hours at room temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Immunohistochemical analysis of CD276 Antibody in MCF-7 cell sections. Cell was fixed with formaldehyde and blocked with super block for 10 minutes at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody (1:25) for 1 hours at room

- [Cell Culture](#)

temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

CD276 Antibody - Background

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.

CD276 Antibody - References

- Chapoval A.I., et al. Nat. Immunol. 2:269-274(2001).
Steinberger P., et al. J. Immunol. 172:2352-2359(2004).
Clark H.F., et al. Genome Res. 13:2265-2270(2003).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Otsuki T., et al. DNA Res. 12:117-126(2005).