

Product Name: KD-Validated CD276 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01134**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 57.2kDa

Antigen Information

Gene Name	CD276
Alternative Names	CD276; CD276 Molecule; B7-H3; B7H3; CD276 Antigen; B7RP-2; Costimulatory Molecule; B7 Homolog 3; 4Ig-B7-H3
Gene ID	80381.0
SwissProt ID	Q5ZPR3
Immunogen	A synthesized peptide derived from human CD276

Background

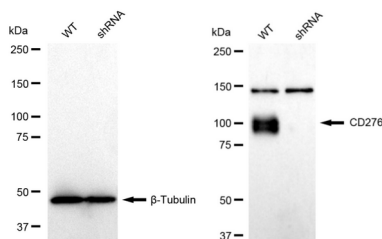
The protein encoded by this gene belongs to the immunoglobulin superfamily, and thought to participate in the regulation of T-cell-mediated immune response. Studies show that while the transcript of this gene is ubiquitously expressed in normal tissues and solid tumors, the protein is preferentially 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]

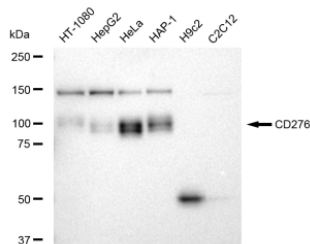
Research Area

Immunology,Cancer,Stem Cells,Neuroscience

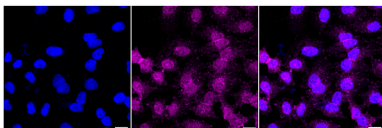
Image Data



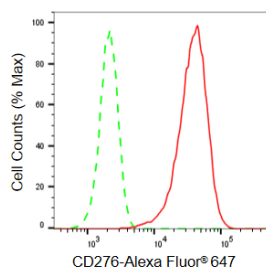
Western blotting analysis using CD276 antibody (KVA01134). CD276 expression in wild type (WT) and CD276 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with CD276 antibody (KVA01134, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using CD276 antibody (KVA01134). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CD276 antibody (KVA01134, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with CD276 antibody (KVA01134, 1:1,000). Nuclei were stained blue with DAPI; CD276 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Flow cytometric analysis of CD276 expression in HeLa cells using CD276 antibody (KVA01134, 1:2,000). Green, isotype control; red, CD276.