

Product datasheet for **CF813302**

B7H3 (CD276) Mouse Monoclonal Antibody [Clone ID: OT11A10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OT11A10
Applications:	FC, WB
Recommended Dilution:	WB 1:500-1000, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CD276 (NP_079516) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	33.6 kDa
Gene Name:	CD276 molecule
Database Link:	NP_079516 Entrez Gene 102657 Mouse Entrez Gene 315716 Rat Entrez Gene 80381 Human Q5ZPR3



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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].

Synonyms:

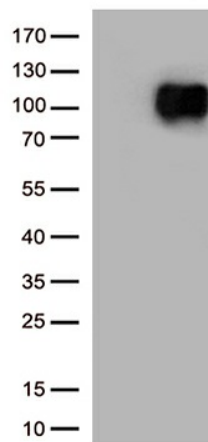
4lg-B7-H3; B7-H3; B7H3; B7RP-2

Protein Families:

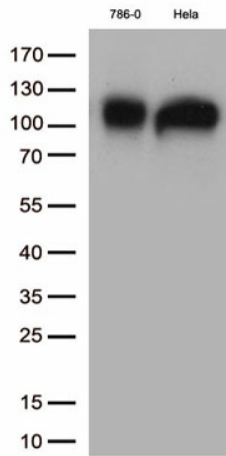
Druggable Genome, Transmembrane

Protein Pathways:

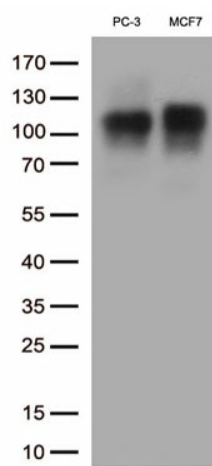
Cell adhesion molecules (CAMs)

Product images:

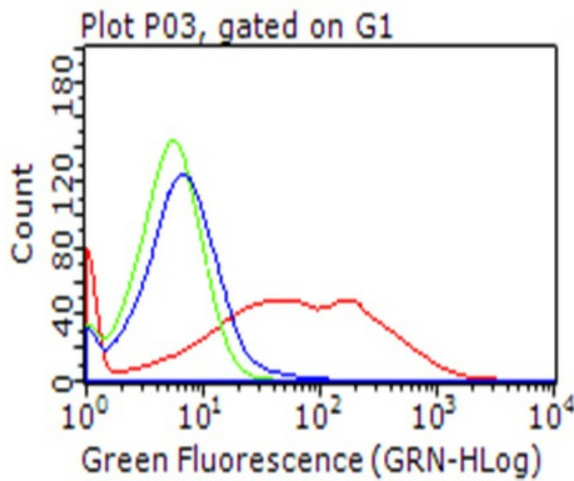
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CD276 (Cat# [RC215291], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD276 antibody (Cat# [TA813302])(1:1000)



Western blot analysis of extracts (35ug) from 2 cell lines lysates by using anti-CD276 monoclonal antibody. (1:500)



Western blot analysis of extracts (35ug) from 2 cell lines lysates by using anti-CD276 monoclonal antibody. (1:500)



Flow cytometric analysis of living 293T cells transfected with CD276 overexpression plasmid ([RC215291], Red)/empty vector ([PS100001], Blue) using anti-CD276 antibody ([TA813302]). Cells incubated with a non-specific antibody (Green) were used as isotype control. □1□100□