CD276 monoclonal antibody

Catalog: MB67130 Host: Mouse Reactivity: Human

BackGround:

B7 homolog 3 (B7-H3, CD276) is a member of the B7 family of cell surface ligands that regulate T cell activation and immune responses. B7-H3 protein contains two extracellular Ig-like V-type domains and two IgG-like C2-type domains, a transmembrane domain, and a short intracellular domain. Early research examining the biological process of B7-H3 suggested that B7-H3 is a positive regulator of T cell response. Subsequent research studies indicated that B7-H3 is a negative regulator of T cell response, and that the protein inhibits T cell proliferation. One possibility is that B7-H3 interacts with two distinct sets of receptors, resulting in seemingly opposite biological outcomes. B7-H3 is expressed by antigen presenting cells, activated T cells, and a few normal tissues, including placenta and prostate. Expression of B7-H3 is seen in several cancer types, including prostate, breast, colon, lung, and gastric cancers, and in endothelial cells from tumor associated vasculature.

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 100 kDa

Swiss-Prot:

Q5ZPR3

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/1000 - 1/2000), IHC (1/50 - 1/200)

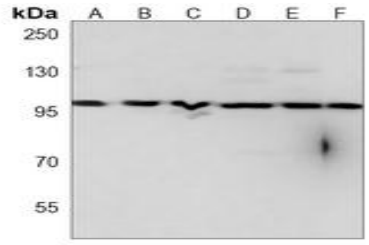
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of CD276 protein.

DATA:



Western blot analysis of CD276 expression in 293 (A), A431 (B), U20S (C), LNCap (D), Hela (E), MCF7 (F) whole cell lysates.

Immunohistochemical analysis of CD276 staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

Bioworld Technology, Inc.
Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416,USA.
Email: info@bioworlde.com
Tel: 6123263284
Fax: 6122933841

Bioworld technology, co. Ltd.
Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.
Email: info@biogot.com
Tel: 0086-025-68037686
Fax: 0086-025-68035151