

## Anti-B7H3 CD276 Monoclonal Antibody [2H5]

Catalog Number: M02220-2

### About CD276

CD276, also known as B7-H3, was initially identified as a member of the B7 family of proteins through its homology with previously identified B7 molecules (1). CD276 mRNA is widely expressed, but its protein expression is usually rather low (2). CD276 has been shown to play a role in both the costimulation as well as the coinhibition of T cell response (3). In a similar fashion, CD276 plays a critical role in the control of antitumor immune responses in some cases, while in others appears to mediate antitumor immunity (4). It thus joins other immune checkpoint proteins as a possible therapeutic target for at least a subset of cancers.

### Overview

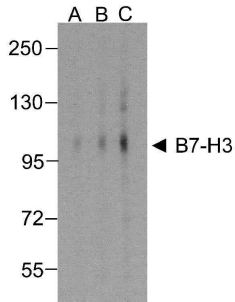
Product Name	Anti-B7H3 CD276 Monoclonal Antibody [2H5]
Reactive Species	Human
Description	Boster Bio Anti-B7H3 CD276 Monoclonal Antibody [2H5] (Catalog # M02220-2). Tested in ELISA, WB, IHC-P, ICC, IF, Flow Cytometry applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IF, IHC-P, ICC, WB
Clonality	Monoclonal Clone: 2H5
Formulation	B7-H3 Antibody is supplied in PBS containing 0.02% sodium azide and 50% glycerol.
Storage Instructions	B7-H3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Mouse
Uniprot ID	Q5ZPR3

### Technical Details

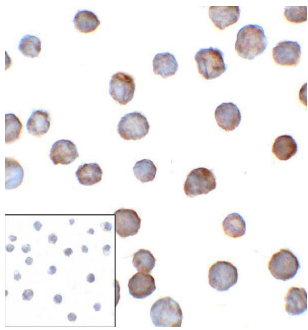
Immunogen	B7-H3 antibody was raised against the extracellular domain of human B7-H3
Predicted Reactive Species	Mouse, Rat
Isotype	IgG1,k
Form	Liquid
Concentration	1 mg/mL
Purification	B7-H3 Antibody is supplied as protein A purified IgG1.
Suggested Dilutions	B7-H3 antibody can be used for detection of B7-H3 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2 ug/mL and Immunocytochemistry starting at 1 ug/mL. For immunofluorescence start at 10 ug/mL. Flow cytometry at 1 ug/ml.

Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples; Immunocytochemistry in human samples; Immunofluorescence in human samples and Flow Cytometry in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

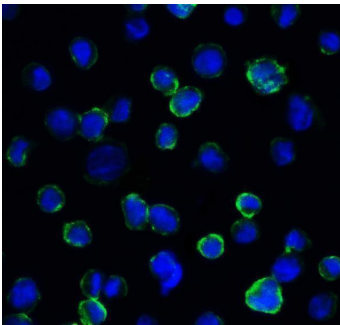
## Anti-B7H3 CD276 Monoclonal Antibody [2H5] (M02220-2) Images



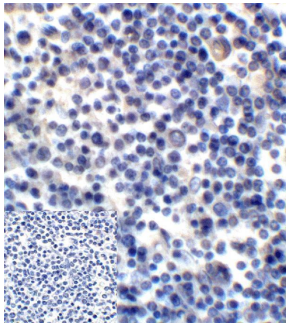
Western blot analysis of B7-H3 in HEK293 cells using B7-H3 antibody at (A) 0.25 (B) 0.5 and (C) 1 ug/ml.



Immunocytochemistry of B7-H3 in HEK293 cells using B7-H3 antibody and control mouse IgG antibody (left corner box) at 1 ug/ml.

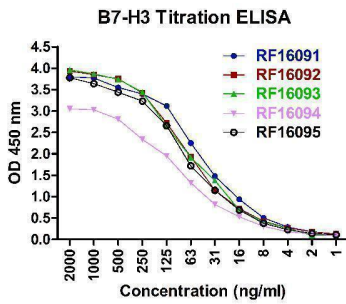
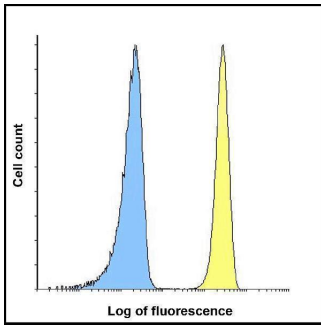


Immunofluorescence of B7-H3 in HEK293 cells using B7-H3 Antibody at 5 ug/ml. Green: B7-H3 Antibody [2H5] (M02220-2) Blue: DAPI staining



Immunohistochemistry of B7-H3 in human colon carcinoma tissue using B7-H3 Antibody and control mouse IgG (corner box) at 2 ug/ml.

Flow cytometry analysis of B7-H3 in HEK293 cells using B7-H3 antibody at 1 ug/ml. Blue: untransfected HEK293 cells. Yellow: B7-H3 over expressing HEK293 cells.



Titration curve analysis of B7-H3 mAbs to detect recombinant B7-H3 in ELISA with M02220-2, RF16092, RF16093, RF16094, and RF16095 antibodies at decreasing concentrations.

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