

Mouse anti-Human B7-H3 Monoclonal Antibody | anti-B7-H3 antibody

B7-H3 Antibody [7B3]

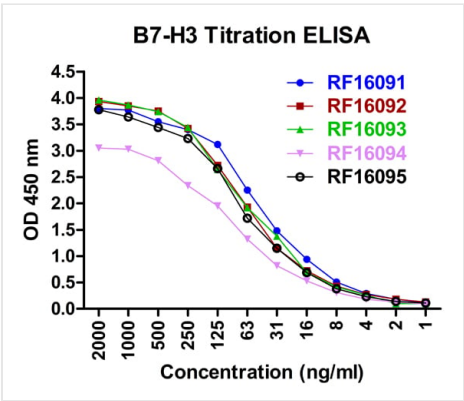
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11025	Mouse	Human	ELISA, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

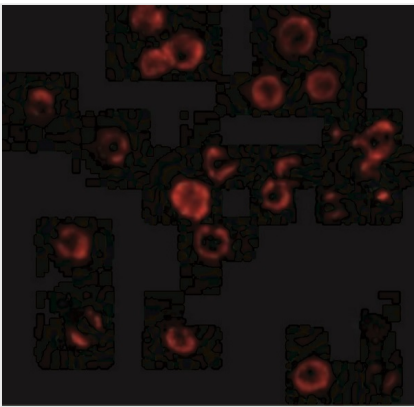
B7-H3; Monoclonal Antibody; B7-H3 Antibody [7B3]; CD276 molecule; B7H3; B7RP-2; 4Ig-B7-H3; CD276; anti-B7-H3 antibody

PRODUCT SPECIFICATIONS

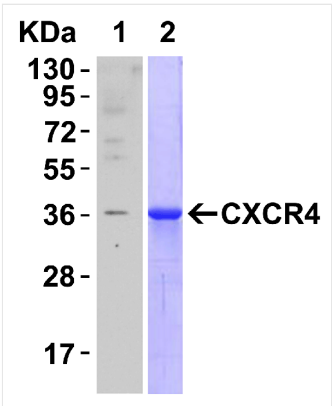
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	7B3
Purity/Purification	Protein A purified
Form/Format	Liquid Supplied in PBS containing 0.02% sodium azide.
Concentration	1 mg/mL (varies by lot)
Sequence Length	534
Applicable Applications for anti-B7-H3 antibody	ELISA, IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	IHC starting at 2 ug/mL ICC starting at 1 ug/mL IF start at 10 ug/mL FC/FACS at 1 ug/ml. Antibody validated: 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.
Immunogen	B7-H3 antibody was raised against the extracellular domain of human B7-H3
Conjugate	Unconjugated
Preparation and Storage	Store at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



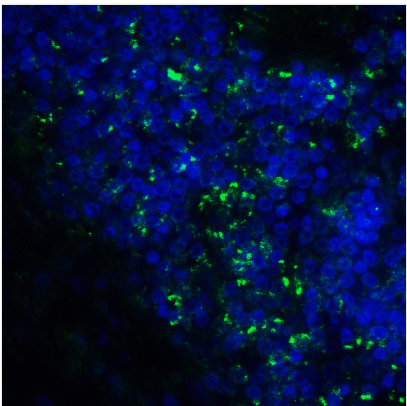
ELISA
Titration curve analysis of B7-H3 mAbs to detect recombinant B7-H3 in ELISA at decreasing concentrations.



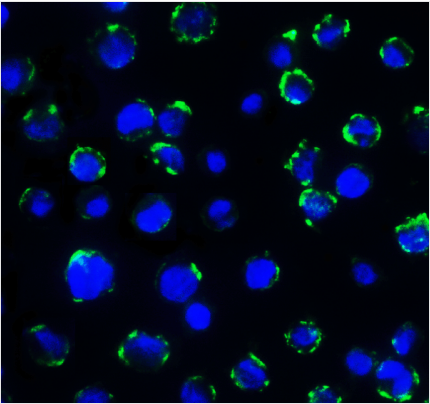
FCM (Flow Cytometry)
Flow cytometry analysis of B7-H3 in HEK293 cells using B7-H3 antibody at 1 μg/ml. Blue: untransfected HEK293 cells. Yellow: B7-H3 over expressing HEK293 cells.



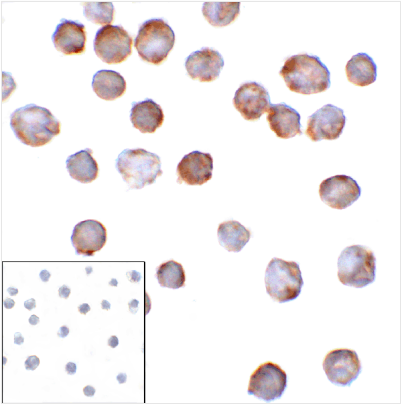
IHC (Immunohistochemistry)
Immunohistochemistry of B7-H3 in human colon carcinoma tissue using B7-H3 Antibody and control mouse IgG (corner box) at 2 μg/ml.



IF (Immunofluorescence)
Immunofluorescence of B7-H3 in human colon carcinoma tissue cells using B7-H3 Antibody at 10 μg/ml. Green: B7-H3 Antibody [7B3]Blue: DAPI staining



IF (Immunofluorescence)
Immunofluorescence of B7-H3 in HEK293 cells using B7-H3 Antibody at 5 μg/ml. Green: B7-H3 Antibody [7B3]Blue: DAPI staining



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

ADDITIONAL INFORMATION

Related Product Information for anti-B7-H3 antibody	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.
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Product Categories/Family for anti-B7-H3 antibody	Immunology
References	Chapoval AI, Ni J, Lau JS, et al. B7-H3: a costimulatory molecule for T cell activation and IFN-gamma production. Nat Immunol 2001; 2:269-74. Sun M, Richards S, Prasad DV, et al. Characterization of mouse and human B7-H3 genes. J Immunol 2002; 168:6294-7. Yi KH and Chen L. Fine tuning the immune response through B7-H3 and B7-H4. Immunol Rev 2009; 229:145-51. Wang L, Kang FB, and Shan BE. B7-H3-mediated tumor immunology: friend or foe. Int J Cancer 2014; 134:2764-71.

NCBI AND UNIPROT INFORMATION

NCBI GI #	67188443
NCBI GeneID	80381
NCBI Accession #	NP_001019907
NCBI GenBank Nucleotide #	NM_001024736.1
UniProt Accession #	Q5ZPR3 ; Q6P5Y4 ; Q6UXI2 ; Q8NBI8 ; Q8NC34 ; Q8NCB6 ; Q9BXR1
Molecular Weight	57,165 Da
NCBI Official Full Name	CD276 antigen isoform a
NCBI Official Synonym Full Names	CD276 molecule
NCBI Official Symbol	CD276
NCBI Official Synonym Symbols	B7H3; B7-H3; B7RP-2; 4Ig-B7-H3
NCBI Protein Information	CD276 antigen
UniProt Protein Name	CD276 antigen
UniProt Gene Name	CD276
UniProt Synonym Gene Names	B7H3; B7-H3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.