

B7-H3 recombinant antibody

Anti-B7-H3 [MJ18]

CATALOG # AAA72012	REACTIVITY Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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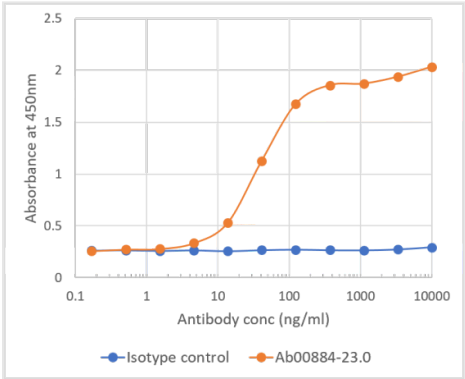
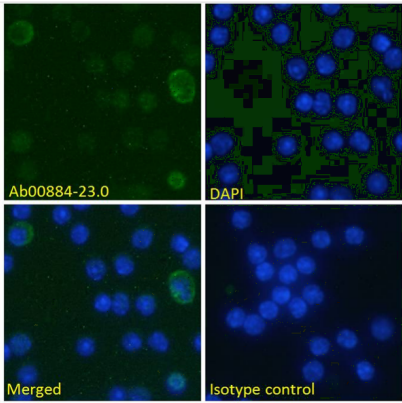
PRODUCT SYNONYMS

B7-H3; Monoclonal Recombinant Antibody; Anti-B7-H3 [MJ18]; B7H3; CD276; B7-H3 recombinant antibody

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG, Kappa
Clone Number	MJ18
Specificity	This antibody binds to mouse B7-H3 and does not react with other B7-family molecules.
Purity/Purification	Protein A Affinity Purified
Concentration	1 mg/ml (varies by lot)
Sequence Length	316
Applicable Applications for B7-H3 recombinant antibody	Blocking, FCM/FACS (Flow Cytometry)
Immunogen	This antibody was generated by immunizing Sprague Dawley rats with B7-H3-Ig, consisting of the extracellular domain (aa1-242 of mouse B7-H3) linked to the Fc portion of mouse IgG2a, emulsified in CFA (Difco). The antibody was selected by its reactivity to mouse B7-H3-transfected cells, but not to parental cells by flow cytometry.
Buffer Composition	PBS only with 0.02% Proclin 300.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Labeled Substance	None
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



ELISA
Binding curve of anti-B7-H3 antibody MJ18 to mouse B7-H3-Fc fusion protein ELISA Plate coated with mouse B7-H3-Fc fusion protein (Pr00158-1.9) at a concentration of 5 ug/ml. A 3-fold serial dilution from 10,000 to 0.1 ng/ml was performed using a 1:4000 dilution of HRP-labelled goat anti-rabbit antibody (Bio-Rad) was used.

IF (Immunofluorescence)
Immunofluorescence staining of fixed mouse splenocytes with anti-B7-H3 (CD276) antibody MJ18 Immunofluorescence analysis of paraformaldehyde fixed mouse (Mus musculus) splenocytes on Shi-fix coverslips, permeabilized with 0.15% Triton stained with the chimeric rabbit version of MJ18 at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing weak membrane staining of a subset of cells. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody

ADDITIONAL INFORMATION

Related Product Information for B7-H3 recombinant antibody	Recombinant monoclonal antibody to B7-H3. Manufactured using a proprietary Recombinant Platform with variable regions (i.e. specificity) from the hybridoma MJ18. This antibody was generated by immunizing Sprague Dawley rats with B7-H3-Ig, consisting of the extracellular domain (aa1-242 of mouse B7-H3) linked to the Fc portion of mouse IgG2a, emulsified in CFA (Difco). The antibody was selected by its reactivity to mouse B7-H3-transfected cells, but not to parental cells by flow cytometry.
Product Categories/Family for B7-H3 recombinant antibody	Costimulation; Invivo; Immunooncology; Vivopure
References	Nagashima et al. B7-H3 contributes to the development of pathogenic Th2 cells in a murine model of asthma. J Immunol. 2008 Sep 15; 181(6):4062-71 PMID:18768862

NCBI AND UNIPROT INFORMATION

NCBI GI #	19527206
NCBI GeneID	102657
NCBI Accession #	NP_598744.1
NCBI GenBank Nucleotide #	NM_133983.4
UniProt Accession #	Q8VE98
Molecular Weight	34,001 Da
NCBI Official Full Name	CD276 antigen
NCBI Official Synonym Full Names	CD276 antigen
NCBI Official Symbol	Cd276
NCBI Official Synonym Symbols	B7h3; B7RP-2; AU016588; 6030411F23Rik
NCBI Protein Information	CD276 antigen
UniProt Protein Name	CD276 antigen
UniProt Gene Name	Cd276

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/b7-h3-recombinant-antibody-clone-mj18-flow-cytometry-elisa/72012>