

Anti-B7-H3 Antibody (8G959)

Product Details

Ig Type:	hIgG1
Reactivity:	Human, Cynomolgus
Conjugation:	Unconjugated
Clone:	8G959
Purification:	Affinity-chromatography

Applications

Verified Activity:	<p>1. The Binding Activity of Human CD276 with Anti-CD276 recombinant antibody Activity: Measured by its binding ability in a functional ELISA. Immobilized human CD276 at 2 µg/mL can bind Anti-CD276 recombinant antibody. The EC50 is 4.299-5.373 ng/mL.</p> <p>2. The Binding Activity of Human CD276 with Anti-CD276 recombinant antibody Activity: Measured by its binding ability in a functional ELISA. Immobilized human CD276 at 2 µg/mL can bind Anti-CD276 recombinant antibody. The EC50 is 47.12-54.16 ng/mL.</p> <p>3. Overlay Peak curve showing MCF7 cells stained with TMAH-00187MA1HU (red line) at 1:100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-human IgG(H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was human IgG (1µg/1*10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.</p>
Application:	ELISA
Recommended	ELISA:1:5000-1:50000.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human CD276 Protein
Antigen Species:	Human
Gene ID:	80381
Uniprot ID:	Q5ZPR3
Synonyms:	B7 homolog 3;PSEC0249;UNQ309;CD276;B7-H3; 4Ig-B7-H3;PRO352
Biology Area:	Cancer, Immunology, Stem cells

Research Background

Earlier studies found that B7H3 (also known as B7H3) promotes the activation of T cells. Chapoval et al. confirmed that in the presence of anti-CD3 antibodies, B7H3 can promote the proliferation of CD4 and CD8+ T cells and selectively promote the secretion of IFN-γ. And B7H3 transfection into tumor cells can enhance the killing ability of

CTL. Further research found that only TLT-2 transgenic cells could bind to mouse B7H3 with high affinity, and TLT-2 was determined to be the receptor molecule of B7H3. Moreover, Hashiguchi et al. confirmed that the B7H3-TLT-2 pathway enhanced T cell activation. However, Leitner et al. did not find the specific binding of B7H3 to TLT-2 by flow cytometry, therefore, the exact receptor molecule of B7H3 is still unclear. On the other hand, studies have found that B7H3 can also suppress T-cell immune responses. Some studies have shown that B7H3 can inhibit human and mouse T cells by activating or inhibiting NFAT (nuclear factor for activated T cells), NF- κ B (nuclear factor κ B) and AP-1 (activator protein-1) pathways. activation. In addition, results have demonstrated that B7H3 may inhibit T cell immune responses by inhibiting the activity of Th1. The study of Leiner et al. also found that B7H3 can down-regulate the secretion of IL-2 in T cells to inhibit the activity of T cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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