Data Sheet (Cat.No.TMAY-01732)

TargetMol

Anti-B7-H3 Antibody (7G630)

Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7G630
Purification:	Protein A

Applications

Verified Activity:	1. Immunofluorescence staining of Human B7H3 in PC3 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with Mouse anti-Human B7H3 monoclonal antibody (1:100) at 4°C overnight. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-mouse IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to plasma membrane. 2. Flow cytometric analysis of Human B7H3(CD276) expression on PC-3 cells. Cells were stained with purified anti-Human B7H3(CD276), then a FITC-conjugated second step antibody. The histogram were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	ELISA,ELISA(Det),FCM,ICC/IF
Recommended	ELISA: 1:1000-1:2000; ICC-IF: 1:50-1:1000; FCM: 1:25-1:100; ELISA(Det): 1:1000-1:10000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human B7-H3 / CD276 protein (TMPY-02031)
Antigen Species:	Human
Synonyms:	4Ig-B7-H3;B7RP-2;CD276 molecule;B7-H3;B7H3
Biology Area:	Cancer Drug Targets

Research Background

B7-H3 is a member of the B7 family of immune regulatory ligands that is thought to attenuate peripheral immune responses through co-inhibition. It plays an important role in adaptive immune responses, and was shown to either promote or inhibit T-cell responses in various experimental systems. B7-H3 may play an important role in muscle-immune interactions, providing further evidence of the active role of muscle cells in local immunoregulatory processes. B7-H3 is a novel protein structurally related to the B7 family of ligands by the presence of a single set of immunoglobulin-V-like and immunoglobulin-C-like (VC) domains. Previous studies have correlated its overexpression with poor prognosis and decreased tumor-infiltrating lymphocytes in various carcinomas including uterine endometrioid carcinomas, and mounting evidence supports an immuno-inhibitory role in ovarian cancer prognosis. Recently, B7-H3 expression has been reported in several human cancers indicating an additional function

of B7-H3 as a regulator of antitumor immunity.Cancer ImmunotherapyCo-inhibitory Immune Checkpoint TargetsImmune CheckpointImmune Checkpoint Detection: AntibodiesImmune Checkpoint Detection: ELISA AntibodiesImmune Checkpoint Detection: FCM AntibodiesImmune Checkpoint Detection: ICC AntibodiesImmune Checkpoint Detection: IP AntibodiesImmune Checkpoint Detection: WB AntibodiesImmune Checkpoint TargetsImmunotherapyTargeted Therapy