

Mouse anti-Human CD274 Monoclonal Antibody | anti-CD274 antibody

anti-human CD274(B7-H1)-R-PE

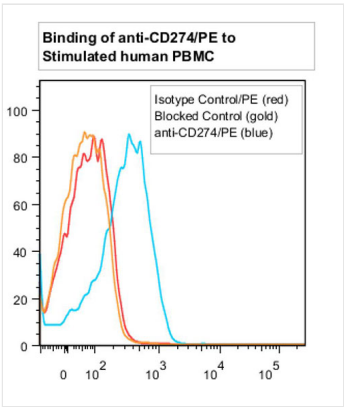
CATALOG # AAA78173	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD274; Monoclonal Antibody; anti-human CD274(B7-H1)-R-PE; Monoclonal anti-human CD274 (B7-H1; PD-L1)/R-PE; anti-CD274 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1k
Clone Number	ANC6H1
Form/Format	50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN3 (as a preservative)
Concentration	Volume: 0.2 ml (varies by lot)
Sequence Length	127
Applicable Applications for anti-CD274 antibody	ELISA, FCM/FACS (Flow Cytometry)
Performance	Ficoll prepared human peripheral blood mononuclear cells (PBMC) were stimulated overnight in culture with 5 ug/ml PHA. Five x 10 ⁵ cells per tube were washed and pre incubated 5 minutes with 20ul of 250ug/ml human IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80 ul of anti-human CD274 at a dilution factor of 1:50 (20 ug/ml). They were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.67 log ₁₀ fluorescent units when compared to a Mouse IgG1/R-PE negative control at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 ul of 0.5 mg/ml anti-CD274 antibody.
Conjugation	PE
Production	Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at 1 mg/ml with an A565/A280 ratio of 3.04.
Buffer	50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN3 (as a preservative).
Immunogen	Recombinant human CD274
Preparation and Storage	Store at 2 - 5°C. Do not freeze! Protect from light.



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CD274 antibody	Information: CD274 (B7-H1, PD-L1, Programmed Death Ligand) is a member of the B7 family and is expressed on a variety of tissues including lymphoid cells. It plays an important role in regulation of T cell activation, and is involved in progression of cancer, arthritis and HIV infection (3). CD274 binding to its receptor CD279 (PD-1) on activated T cells can decrease proliferation. Conversely, ligation of CD279 on primed T cells can stimulate IL-10 production. High levels of CD274 present in Renal cell carcinoma is associated with poor prognosis (1). Tumor expressed CD274 can increase apoptosis of tumor specific T cells resulting in better tumor cell survival (2). Gamma Interferon and PHA can up regulate CD274 expression on T cells. Antibody ANC6H1 binds to recombinant CD274 and native cell surface CD274 expressed on stimulated PBMC.
References	1)Cancer Research (April 2006) 66:3381. 2)J Molecular Medicine (Feb 2004) 81(5):281. 3)Int J Hematol (Nov 2003) 78(4):321.

NCBI AND UNIPROT INFORMATION

NCBI GI #	112363645
NCBI GeneID	29126
NCBI Official Full Name	CD274, partial
NCBI Official Synonym Full Names	CD274 molecule
NCBI Official Symbol	CD274
NCBI Official Synonym Symbols	B7-H; B7H1; PDL1; PD-L1; PDCD1L1; PDCD1LG1
NCBI Protein Information	programmed cell death 1 ligand 1; B7 homolog 1; CD274 antigen; PDCD1 ligand 1; programmed death ligand 1
UniProt Protein Name	Programmed cell death 1 ligand 1
UniProt Gene Name	CD274
UniProt Synonym Gene Names	B7H1; PDCD1L1; PDCD1LG1; PDL1; PD-L1; PDCD1 ligand 1; Programmed death ligand 1; B7-H1
UniProt Entry Name	PD1L1_HUMAN

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.