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## Mouse Anti-Anti-CD274 Antibody Product Attributes

**Species:** Mouse

**Tested Applications:** Flow Cytometry.

**Application Notes:** See Product Datasheet for Recommended Dilution Range. Requires Experimental Optimization

**Clonality:** Monoclonal Antibody

**Anti-Anti-CD274 Antibody Clone:** 10F.9G2

**Clone 10F.9G2 Host and Isotype:** Rat IgG2b kappa

**Buffer and Stabilizer:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, 0.1% gelatin, pH7.2

**Antibody Concentration:** 0.2 mg/mL

**Storage Conditions:** 2-8C protected from light. Stable for 12 Months. Do Not Freeze.

## Anti-CD274 Previously Observed Antibody Staining Patterns

### Observed Subcellular, Organelle Specific Staining Data:

Staining with anti-PD-L1 / B7-H1 / CD274 antibody reveals PD-L1 / B7-H1 / CD274 expression is expected to be primarily localized to the cytosol.

## Selected References

Chen A, Ahlen G, Brenndorfer ED, Brass A, Holmstrom F, Chen M, Soderholm J, Milich DR, Frelin L, and Sallberg M. 2011. *J. Immunol.* 186:5107-5118. (in vivo depletion) Zhang L, Gajewski TF, and Kline J. 2009. *Blood.* 114:1545-1552. (in vivo blocking) Rivas MN, Weatherly K, Hazzan M, Vokaer B, Dremier S, Gaudray F, Goldman M, Salmon I, and Braun MY. 2009. 183:4284-4291. (in vitro blocking) Brooks DG, Ha S-J, Elsaesser H, Sharpe AH, Freeman GJ, and Oldstone MBA. 2008. *Proc. Natl. Acad. Sci.* 105:20428-20433. (in vivo blocking) Koehn BH, Ford ML, Ferrer IR, Borom K, Gangappa S, Kirk AD, and Larsen CP. 2008. *J. Immunol.* 181:5313-5322. (in vivo blocking)

## Limitations and Warranty

enQUIRE Bio's Mouse Anti-CD274 / PD-L1 Monoclonal is available for Research Use Only. This antibody is guaranteed to work for a period of two years when properly stored.

Anti-CD274 General Information	
Alternate Names	
PD-L1, B7-H1, CD274, A5345L16Rik, Pdcd1l1, Pdl1, B7h1, Pdcd1lg1	
Curated Database and Bioinformatic Data	
Gene Symbol	Cd274
Entrez Gene ID	60533
Ensemble Gene ID	ENSMUSG00000016496
RefSeq Protein Accession(s)	NP_068693
RefSeq mRNA Accession(s)	NM_021893
RefSeq Genomic Accession(s)	NC_000085
UniProt ID(s)	Q3U472 , Q9EP73
UniGene ID(s)	Q3U472 , Q9EP73
Cosmic ID(s)	Cd274
KEGG Gene ID(s)	mmu:60533
General Description of Anti-CD274.	
The 10F.9G2 antibody is specific for mouse CD274, more commonly known as PD-L1 or B7-H1, which acts as a ligand for the T cell co-regulatory receptor PD-1 (CD279). This interaction modulates T cell antigen receptor (TCR) signaling and therefore T cell activation. PD-L1 binding to PD-1 expressed on CD4- CD8- thymocytes participates in the processes of clonal selection, elimination of autoreactive lymphocytes, and development of tolerance. PD-L1 may also bind PD-1 following the receptors inducible expression on activated, mature T cells, where it has been proposed to limit T cell activation. PD-L1 is one of a group of B7 ligands whose interactions with the CD28 receptor family, also including CTLA-4 (CD152), provide a balance of co-stimulatory /co-inhibitory signaling important in T cell activation, tolerance, and autoimmunity. The 10F.9G2 antibody may be used as a marker for PD-L1 expression on T and B cells, NK	



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