



Mouse Anti-Human PD-L1 (B7-H1) Monoclonal antibody, clone 29E.2A3 (CABT-L4518)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The 29E.2A3 monoclonal antibody reacts with human PD-L1 (programmed death ligand 1) also known as B7-H1 or CD274. PD-L1 is a 40 kDa type I transmembrane protein that belongs to the B7 family of the Ig superfamily.
Target	Human PD-L1 (B7-H1)
Immunogen	Full length human PD-L1
Isotype	IgG2b, κ
Source/Host	Mouse
Species Reactivity	Human
Clone	29E.2A3
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vitro PD-L1 blockade, FuncS, IHC-F, FC
Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg

Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The 29E.2A3 monoclonal antibody reacts with human PD-L1 (programmed death ligand 1) also known as B7-H1 or CD274. PD-L1 is a 40 kDa type I transmembrane protein that belongs to the B7 family of the Ig superfamily. PD-L1 is expressed on T lymphocytes, B lymphocytes, NK cells, dendritic cells, as well as IFNγ stimulated monocytes, epithelial cells and endothelial cells. PD-L1 binds to its receptor, PD-1, found on CD4 and CD8 thymocytes as well as activated T and B lymphocytes and myeloid cells. Engagement of PD-L1 with PD-1 leads to inhibition of TCR-mediated T cell proliferation and cytokine production. PD-L1 is thought to play an important role in tumor immune evasion. Induced PD-L1 expression is common in many tumors and results in increased resistance of tumor cells to CD8 T cell mediated lysis. The 29E.2A3 antibody has been shown to block the binding of PD-1-Ig to PD-L1.
Keywords	CD274;CD274 molecule;B7-H;B7H1;PDL1;PD-L1;PDCD1L1;PDCD1LG1;programmed cell death 1 ligand 1;B7 homolog 1;CD274 antigen;PDCD1 ligand 1;programmed death ligand 1;

GENE INFORMATION

Official Symbol	CD274 molecule
Synonyms	CD274; CD274 molecule; B7-H; B7H1; PDL1; PD-L1; PDCD1L1; PDCD1LG1; programmed cell death 1 ligand 1; B7 homolog 1; CD274 antigen; PDCD1 ligand 1; programmed death ligand 1;
References	Porichis, F., et al. (2014). "Differential impact of PD-1 and/or interleukin-10 blockade on HIV-1-specific CD4 T cell and antigen-presenting cell functions." J Virol 88(5): 2508-2518. PubMed;