ANGIO-PROTEOMIE

DATA SHEET

Mouse monoclonal anti human PD-L1 (B7-H1)

(Azide-free & Low endotoxin)

ORDERING INFORMATION

Catalog Number:	**gAP-0241**
Size:	**1.00 mg**
Storage:	**< -20° C**
Immunogen:	**Fc-fusion human PD-L1 protein**
Ig Type:	**Mouse IgG2**
Clone	**AP-MAB1801**
Endotoxin Level	**< 0.002EU/ug IgG***
Applications:	**FC, Neutralization, and IHC**

Description: Programmed cell death 1 ligand 1 (UniProt Q9NZQ7; also known as B7-H1, B7 homolog 1, CD274, PD-L1, PDCD1 ligand 1, Programmed death ligand 1) is encoded by the CD274 (also known as B7H1, PDCD1L1, PDCD1LG1, PDL1) gene (Gene ID 29126) in human. PD-1 and PD-1 ligands 1&2 (PD-L1 and PD-L2) are B7:CD28 family members that regulate T cell activation and peripheral tolerance. When engaged together with the TCR, the interaction of PD-1 with its ligands delivers an inhibitory signal to T cell proliferation and cytokine production. While PD-L1 is broadly expressed in hematopoietic and nonhematopoietic cells, PD-L2 expression is highly restricted to antigen presenting cells (APCs), including dendritic cells (DCs) and macrophages. The PD-1 pathway plays a key role in the progressive loss of effector T cell responses during chronic HIV infection. Under some conditions, blockade of this pathway is able to restore many T cell functions. PD-L1 is initially produced with signal peptide (a.a. 1-18) sequence, the removal of which yields the mature protien with a large extracellular (a.a. 19-238) region that contains an Ig-like V-type domain (a.a. 19-127) and an Ig-like C2-type domain (a.a. 133-225), followed by a transmembrane domain (a.a. 239-259) and a cytoplasmic tail (a.a. 260-290).

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with **Fc-fusion human PD-L1 protein**.

Formulation: The IgG fraction of **culture supernatant** was purified by Protein A/G affinity chromatography and lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS, **Azide Free**).

Reconstitution: Reconstitute the antibody with sterile PBS and the reconstituted antibody can be aliquoted and stored frozen at < -20 for at least for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C.
Endotoxin Level: **Extremely low level of LPS (< 0.002EU/ug IgG)**

Application(s):

1. **FC**
2. **Neutralization**
3. **IHC**

*** The antibody is produced by in vitro culture and for research use only**

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