

Product datasheet for **TP727306**

Pdcd1lg2 Mouse Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant Mouse PD-L2/B7-DC/CD273 (C-Fc) |
| Species: | Mouse |
| Expression cDNA Clone or AA Sequence: | Leu20-Arg219 |
| Tag: | C-Fc |
| Buffer: | Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4. |
| Note: | Recombinant Mouse Programmed Cell Death 1 Ligand 2 is produced by our Mammalian expression system and the target gene encoding Leu20-Arg219 is expressed with a Fc tag at the C-terminus. |
| Stability: | 12 months from date of despatch |
| Locus ID: | 58205 |
| UniProt ID: | Q9WUL5 |
| Summary: | <p>Programmed cell death 1 ligand 2 (PD-L2), also known as butyrophilin B7-DC or PDCD1 ligand 2, belongs to the member of B7 family which can regulate the activation and tolerance of T cells. PD-L2 is one ligand for Programmed cell death 1(PD-1), and the other is PD-L1. These two ligands shares 34% aa sequence identity. Mouse PD-L2 gene encodes a 273 amino acids (aa) protein with a putative 19 aa signal peptide, a 201 aa extracellular region , a 21 aa transmembrane domain and a 32 aa cytoplasmic region. The mouse PD-L2 gene is highly expressed in heart, placenta, pancreas, lung and liver while expressed weakly in spleen, lymph nodes and thymus. Besides, the expression of PD-L2 gene can be induced on dendritic cells grown from peripheral blood mononuclear cells under CSF2 and IL4/interleukin-4 treatment, and up-regulated by IFNG/IFN-gamma stimulation in monocytes. PD-L2 usually functions in a PDCD1-independent manner and is involved in regulating costimulatory signal which is essential for T-cell proliferation and IFNG production. Recent studies demonstrate that the expression of PD-L2 on the tumor cells promotes CD8 T cell-mediated rejection of tumor cells, at both the induction and effector phase of antitumor immunity. Moreover, PD-L2 binds to PD-1 cells and enhances T cell killing in a PD-1-independent mechanism.</p> |



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