

Programmed Cell Death Protein 1 Ligand 1 Active Protein | PDL1 active protein

Active Programmed Cell Death Protein 1 Ligand 1 (PDL1)

CATALOG #
AAA150101

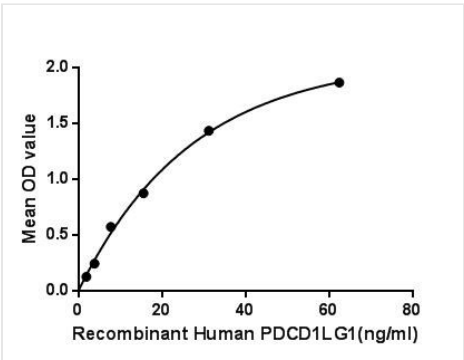
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

Programmed Cell Death Protein 1 Ligand 1; Active Programmed Cell Death Protein 1 Ligand 1 (PDL1); CD274; PDCD1LG1; B7-H; B7H1; PD-L1; PDCD1L1; PDCD1-LG1; Programed Death Ligand 1; PDL1 active protein

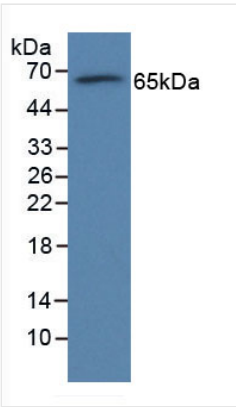
PRODUCT SPECIFICATIONS

Purity/Purification	>97%
Form/Format	Freeze-dried powder PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence Positions	Phe19~Thr290
Sequence Length	176
Applicable Applications for PDL1 active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His Tag
Isoelectric Point	6.5
Reconstitution	Reconstitute in 10mM PBS (pH7.6) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

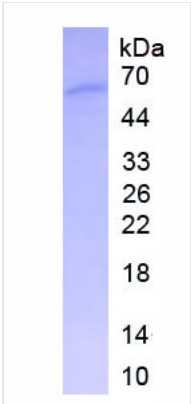


Bioactivity

Programmed Cell Death Protein 1 Ligand 1 (PDCD1LG1) also known as cluster of differentiation 274 (CD274) or B7 homolog 1 (B7-H1) is a 40kDa type 1 transmembrane protein that has been speculated to play a major role in suppressing the immune system during particular events such as pregnancy, tissue allografts, autoimmune disease and other disease states such as hepatitis. Besides, Programmed Cell Death Protein 1 (PDCD1) has been identified as an interactor of PDCD1LG1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PDCD1LG1 and recombinant human PDCD1. Briefly, PDCD1LG1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to PDCD1-coated microtiter wells and incubated for 2h at 37. Wells were washed with PBST and incubated for 1h with anti-PDCD1LG1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of PDCD1LG1 and PDCD1 was shown in Figure 1, and this effect was in a dose dependent manner. Figure. The binding activity of PDCD1LG1 with PDCD1.



WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for PDL1 active protein	Signal transduction; Tumor immunity; Infection immunity; Immune molecule; Autoimmunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	390979639
NCBI GeneID	29126
NCBI Accession #	NP_001254635.1
NCBI GenBank Nucleotide #	NP_001254635.1
UniProt Accession #	Q9NZQ7

Molecular Weight	Predicted Molecular Mass: 32.6kDa Accurate Molecular Mass: 65kDa
NCBI Official Full Name	programmed cell death 1 ligand 1 isoform b
NCBI Official Synonym Full Names	CD274 molecule
NCBI Official Symbol	CD274
NCBI Official Synonym Symbols	B7-H; B7H1; PDL1; PD-L1; hPD-L1; PDCD1L1; PDCD1LG1
NCBI Protein Information	programmed cell death 1 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.

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Online datasheet: <https://stage.aaabiotech.com/pdl1-active-protein/programmed-cell-death-protein-1-ligand-1/150101>