Datasheet for ABIN6655838
anti-PD-L1 antibody

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Overview

Quantity:	25 µL
Target:	PD-L1
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This PD-L1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP), Immunofluorescence (IF), Fluorescence Microscopy (FM)

Product Details

Purpose:	PDL1 Antibody
Immunogen:	Anti-PDL1 antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to an internal portion of human PDL1 conjugated to Keyhole Limpet Hemocyanin (KLH).
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against human PDL1.
Purification:	This product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered

Target Details

Target:	PD-L1

Target Details

Alternative Name:	PDL1 (PD-L1 Products)
Background:	Synonyms: Goat anti-PDL1 antibody, Programmed cell death 1 ligand 1, CD274, B7H1, PDCD1L1, PDCD1LG1, PDL1, B7 homolog 1, PD-L1, PDCD1 ligand 1, B7-H1, B7 homolog 1, PDL-1, CD274 Molecule antibody, MGC142294 antibody, PDL 1 Background: PDL1 belongs to the immunoglobulin superfamily and BTN/MOG family. PDL1 is involved in the costimulatory signal, essential for T-cell proliferation and production of IL-10 and IFNG, in an IL-2 dependent and a PDCD1 independent manner. It is up-regulated in T-and B-cells, dendritic cells, keratinocytes and monocytes after LPS and IFNG activation. PDL1 is up-regulated in B-cells activated by surface Ig cross-linking. Interaction with PDCD1 inhibits T-cell proliferation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma. Anti-PDL-1 Antibody is useful for researches interested in cancer research, NF-kB pathway research, and the Immune system. Gene Name: CD274
Gene ID:	29126
NCBI Accession:	NP_001254635
UniProt:	Q9NZQ7
Pathways:	Cancer Immune Checkpoints

Application Details

Application Notes:	Immunoprecipitation_Dilution: User Optimized ELISA_Dilution: 1:10,000-1:50,000 Immunohistochemistry_Dilution: 1:200 Flow_Cytometry_Dilution: User Optimized IF_Microscopy_Dilution: 10 µg/mL Western_Blot_Dilution: 1.0 µg/mL
Comment:	Anti-PDL-1 Antibody has been tested in Western Blot, ELISA, and IF. Positive control whole cell lysates used MDA-MB-231 p/n (W09-001-GK6) and A549 p/n (W09-001-372) and positive recombinant protein control for western blotting. Expect a band at ~33.3 kDa in western blot using appropriate lysates. Immunofluorescence positive control cell line used was MDA-MB-

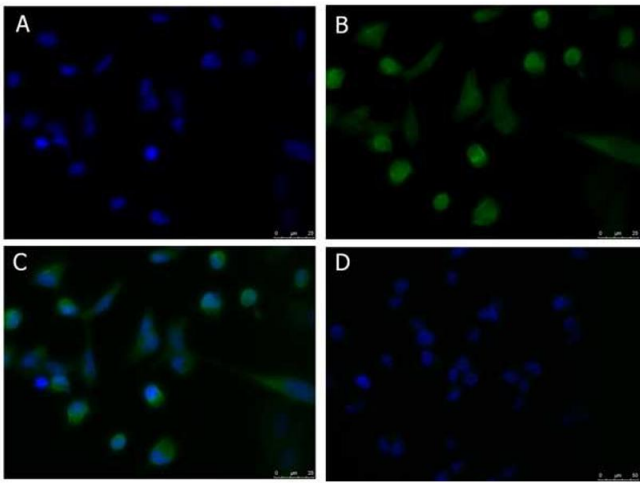
Application Details

	231 p/n (W09-001-GK6). Although not tested, this antibody is likely functional in flow cytometry and immunoprecipitation.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiry Date:	12 months

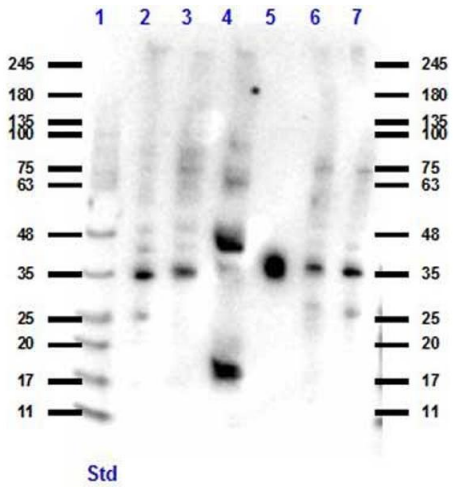
Images



Immunofluorescence

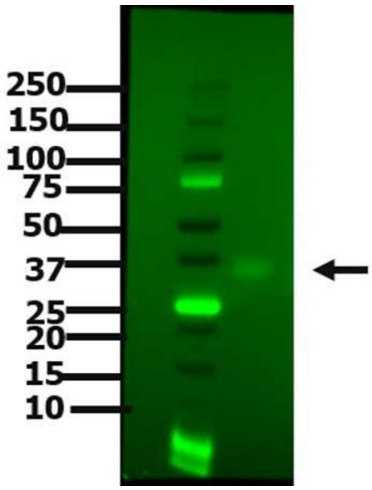
Image 1. Immunofluorescence Microscopy of Goat anti-PDL1 antibody Immunofluorescence Microscopy of Goat anti-PDL1 antibody. Cell line: MDA-MB-231 p/n (W09-001-GK6). Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: PLD1 antibody at 10 µg/mL for overnight at 4°C. Secondary antibody: Anti-Goat IgG488 (Rabbit) Conjugated Preadsorbed at 5 ug/ml for 2 hrs at RT. Localization: PDL1 is located in the cell membrane and

cytoplasm. Staining: PDL1 as green fluorescent signal with DAPI (blue) nuclear counterstain.



Western Blotting

Image 2. Western Blot of Goat anti-PDL-1 antibody Western Blot of Goat anti-PDL-1 antibody. Lane 1: MW ladder (opal pre-stained) p/n (MB-210-0500). Lane 2: U-251 WCL p/n (W09-001-GY4). Lane 3: MDA-MB-231 WCL p/n (W09-001-GK6). Lane 4: Ms Heart lysate p/n (W10-000-T014). Lane 5: recombinant human PDL-1 protein. Lane 6: A549 WCL p/n (W09-001-372). Lane 7: A549 IFNy Stimulated WCL p/n (W09-001-GY5). Load: Lysates loaded at 10 µg per lane, protein at 5.0 ng per lane. Primary antibody: PDL-1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: goat secondary HRP antibody at 1:40,000 for 45 min at RT. Block: BlockOut overnight at 4°C. Predicted/Observed size: 33 kDa for PDL-1.



Western Blotting

Image 3. Western Blot of Goat anti-PDL1 antibody Western Blot of Goat anti-PDL1 antibody. Lane 1: Molecular Weight. Lane 2: r PDL1 Recombinant protein. Load: 2 µg per lane. Primary antibody: PDL1 antibody at 5 ug/mL for overnight at 4°C. Secondary antibody: Dky-a-Gt IgG HRP 605-703-125 and Rb-a-Gt IgG DL488 605-441-013 at 1:40,000 for 45 min at RT. Block: 5% w/v BSA, 1X TBS, 0.1% 20 overnight at 4°C. Predicted/Observed size: ~33 kda for PDL1. Other band(s): none.