

## Product datasheet for **TA591005**

### PD-L1 (CD274) Rabbit Monoclonal Antibody [Clone ID: OR-5E4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OR-5E4
Applications:	WB
Recommended Dilution:	WB: 1:500-1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human CD274 (NP_054862). The exact sequence is proprietary.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	34 kDa
Gene Name:	CD274 molecule
Database Link:	<a href="#">NP_054862</a> <a href="#">Entrez Gene 29126 Human</a> <a href="#">Q9NZQ7</a>



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**Background:**

This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

**Synonyms:**

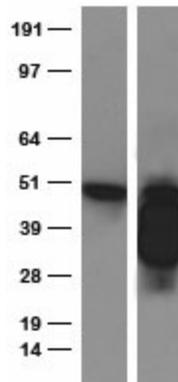
B7-H; B7H1; PD-L1; PDCD1L1; PDCD1LG1; PDL1

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Cell adhesion molecules (CAMs)

**Product images:**

Western blot analysis of extracts from Ramos cell line (35ug, left lane) and HEK293T cells transfected with pCMV6-ENTRY\_PD-L1 cDNA-[RC213071] (5ug, Right lane), using anti-PD-L1 rabbit monoclonal antibody (TA591005) at 1:1000 dilution.