

Product datasheet for **TA591004**

PD-L1 (CD274) Rabbit Monoclonal Antibody [Clone ID: OR-5E3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OR-5E3
Applications:	IHC
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Synthetic peptide within Human PD-L1 C-terminal. 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:	NP_054862 Entrez Gene 60533 Mouse Entrez Gene 29126 Human Q9NZQ7



[View online »](#)

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:

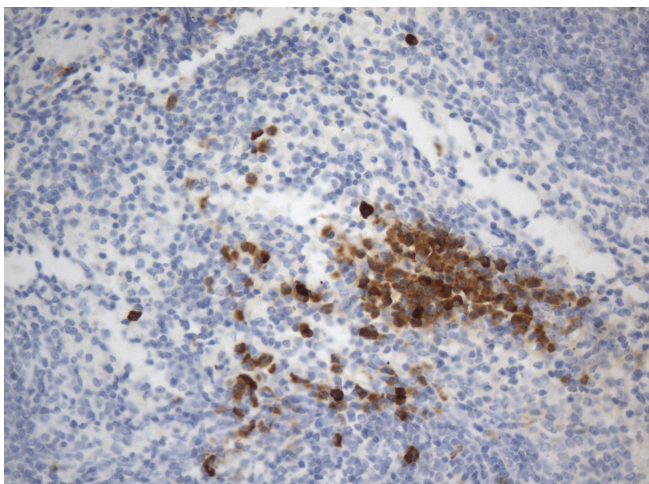
B7-H; B7H1; PD-L1; PDCD1L1; PDCD1LG1; PDL1

Protein Families:

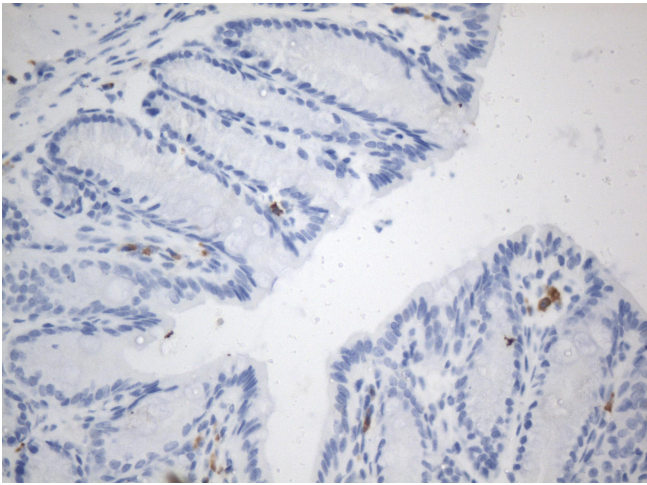
Druggable Genome, Transmembrane

Protein Pathways:

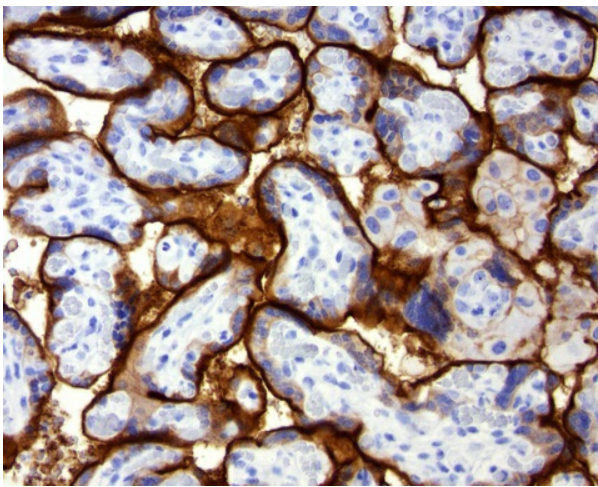
Cell adhesion molecules (CAMs)

Product images:

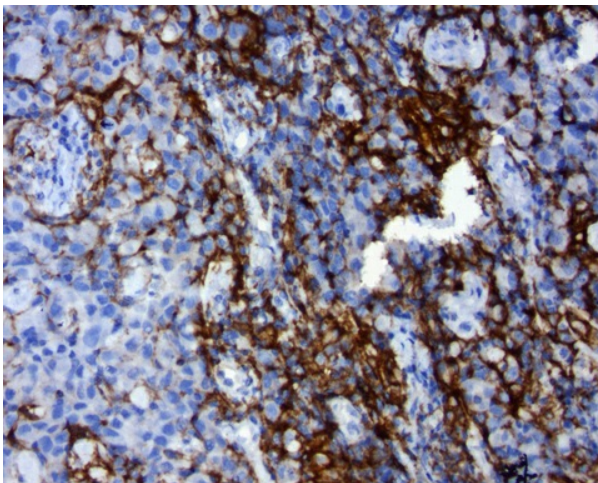
Immunohistochemical staining of FFPE mouse spleen with Rb monoclonal PD-L1 C/N (TA591004, clone OR-5E3) at 0.9mg/mL at 1:300. Rb anti-PD-L1 clone OR-5E3 requires heat-induced epitope retrieval (HIER) at 120°C for 3min with TE (EDTA-Tris pH9). Detection was done with D13 Polink1 polymer detection system and visualized with DAB.



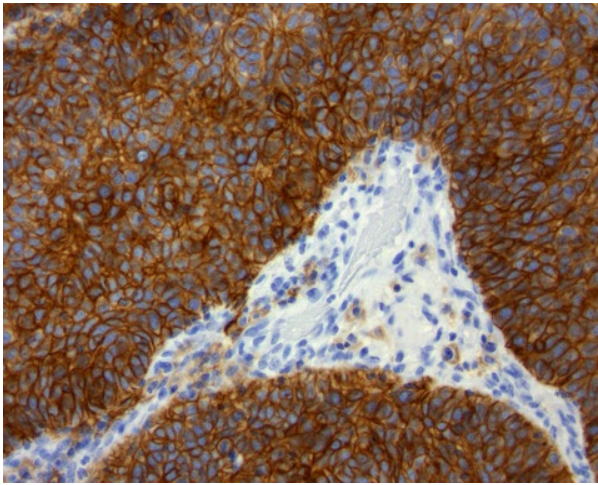
Immunohistochemical staining of FFPE mouse colon with Rb monoclonal PD-L1 C/N (TA591004, clone OR-5E3) at 0.9mg/mL at 1:300. Rb anti-PD-L1 clone OR-5E3 requires heat-induced epitope retrieval (HIER) at 120°C for 3min with TE (EDTA-Tris pH9). Detection was done with D13 Polink1 polymer detection system and visualized with DAB.



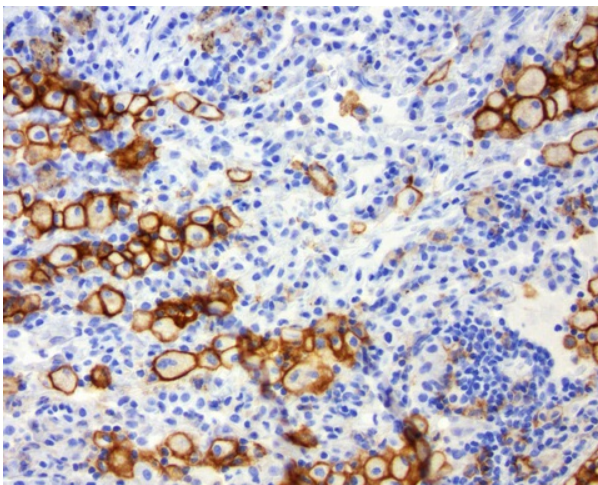
Immunohistochemical staining of FFPE human placenta with Rb monoclonal PD-L1 C/N TA591004 clone OR-5E3 at 1:100. Rb anti-PD-L1 clone OR-5E3 requires heat-induced epitope retrieval (HIER) at 120°C for 3min with ACCEL (EDTA-Tris pH8.7). Detection was done with Polink2 polymer detection system and visualized with DAB. Strong membrane staining seen in trophoblasts.



Immunohistochemical staining of FFPE human melanoma with Rb monoclonal PD-L1 C/N TA591004 clone OR-5E3 at 1:100. Rb anti-PD-L1 clone OR-5E3 requires heat-induced epitope retrieval (HIER) at 120°C for 3min with ACCEL (EDTA-Tris pH8.7). Detection was done with Polink2 polymer detection system and visualized with DAB. Strong membrane staining seen in tumor cells.



Immunohistochemical staining of FFPE human lung cancer case 1 with Rb monoclonal PD-L1 C/N TA591004 clone OR-5E3 at 1:100. Rb anti-PD-L1 clone OR-5E3 requires heat-induced epitope retrieval (HIER) at 120°C for 3min with ACCEL (EDTA-Tris pH8.7). Detection was done with Polink2 polymer detection system and visualized with DAB. Strong membrane staining seen in tumor cells.



Immunohistochemical staining of FFPE human lung cancer case 2 with Rb monoclonal PD-L1 C/N TA591004 clone OR-5E3 at 1:100. Rb anti-PD-L1 clone OR-5E3 requires heat-induced epitope retrieval (HIER) at 120°C for 3min with ACCEL (EDTA-Tris pH8.7). Detection was done with Polink2 polymer detection system and visualized with DAB. Strong membrane staining seen in tumor cells.