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Product datasheet for TA355066

PD-L1 (CD274) Mouse Monoclonal Antibody [Clone ID: 4F2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4F2
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB: 0.25-0.5µg/mL.IHC starting at 2-5µg/mL.IF start at 5µg/mL.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	PD-L1 antibody was raised against the extracellular domain of human PD-L1.
Formulation:	PD-L1 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	PD-L1 Antibody is supplied as protein A purified IgG1.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 32 kDa; Observed: 45 kDa
Gene Name:	CD274 molecule
Database Link:	NP_054862 Entrez Gene 29126 Human Q9NZQ7

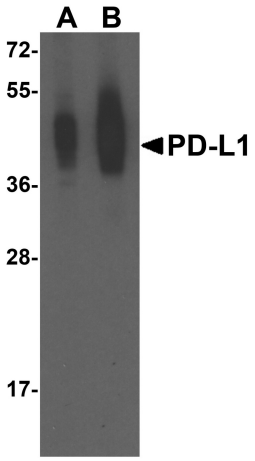
View online »

Background: PD-L1 Antibody: Cell-mediated immune responses are initiated by T lymphocytes that are themselves stimulated by cognate peptides bound to MHC molecules on antigen-presenting cells (APC) (1). T-cell activation is generally self-limited as activated T cells express receptors such as PD-1 (also known as PDCD-1) that mediate inhibitory signals from the APC (2). PD-1 can bind two different but related ligands, PD-L1 and PD-L2. PD-L1 is a B7-related protein that inhibits cell-mediated immune responses by reducing the secretion of IL-2 and IL-10 from memory T cells (3). This suggests that PD-L1 may be useful in reducing allogenic CD4+ memory T-cell responses to endothelial cells, thereby reducing the likelihood of host immune responses to allografts. PD-L1 also functions as an immune checkpoint protein, and multiple anti-PD-L1 antibodies are currently in phase II and III clinical trials, with one antibody already approved for the treatment of cancer (4).

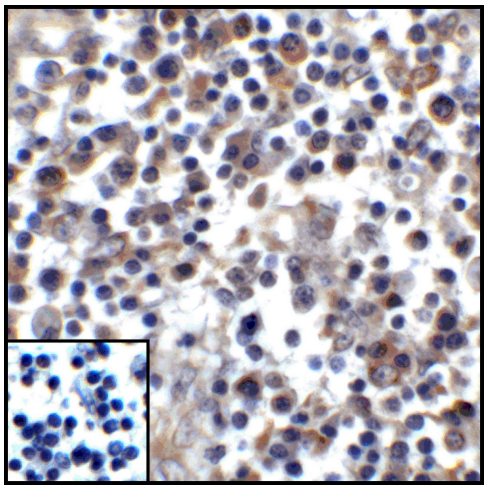
Synonyms: B7-H; B7-H1; B7H1; MGC142294; MGC142296; PD-L1; PDCD1L1; PDCD1LG1; PDL1

Note: PD-L1 antibody can be used for detection of PD-L1 by Western blot at 0.25 - 0.5 µg/mL. Antibody can also be used for immunohistochemistry starting at 2 - 5 µg/mL. For immunofluorescence start at 5 µg/mL.

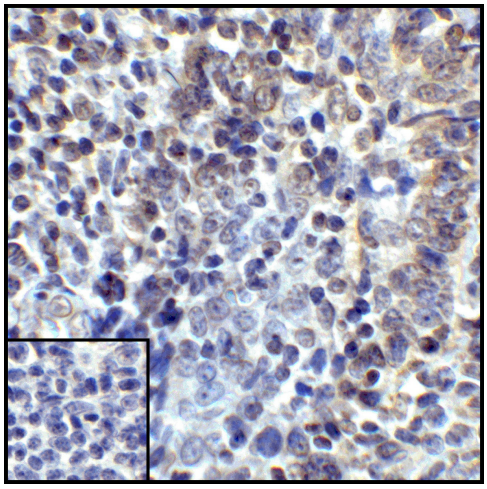
Product images:



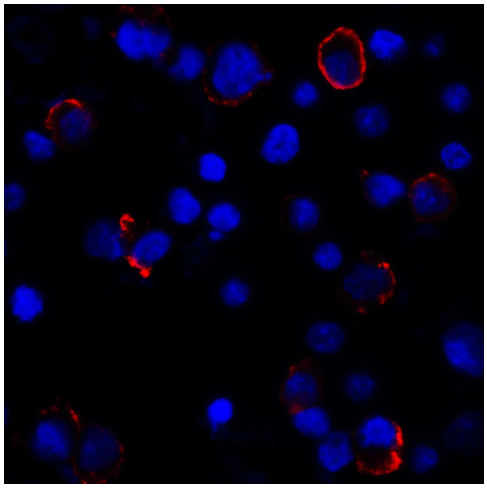
Western blot analysis of PD-L1 in overexpressing HEK293 cells PD-L1 antibody at 0.25 and 0.5ug/ml



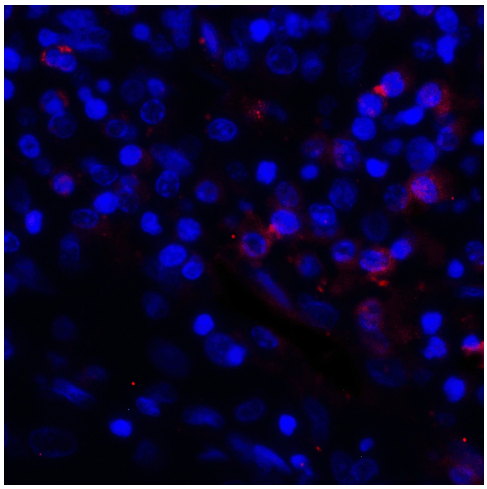
Immunohistochemistry of PD-L1 in human stomach carcinoma tissue with PD-L1 antibody at 5ug/ml.



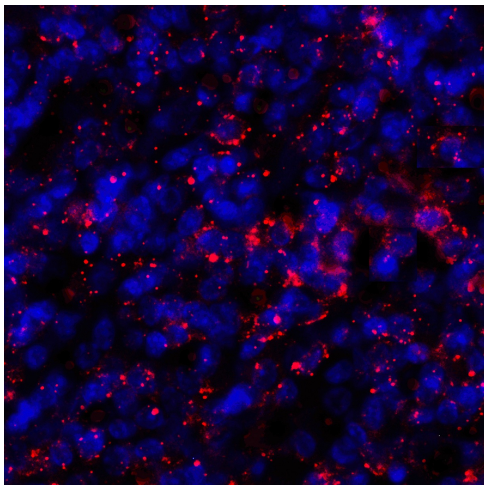
Immunohistochemistry of PD-L1 in human tonsil tissue with PD-L1 antibody at 5ug/ml.



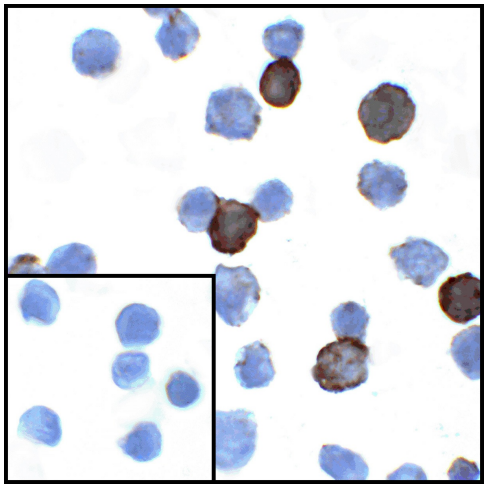
Immunofluorescence of PD-L1 in transfected HEK293 cells with PD-L1 antibody at 2ug/ml.



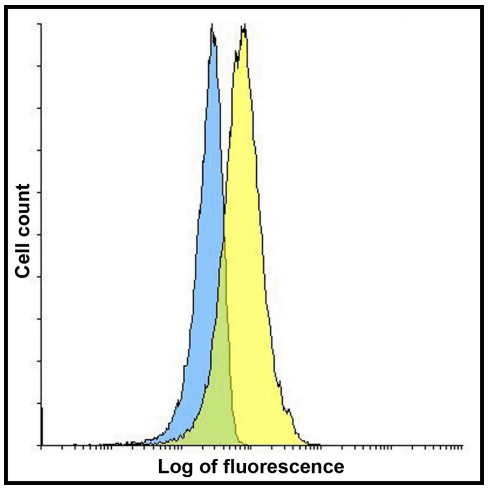
Immunofluorescence of PD-L1 in human stomach carcinoma tissue with PD-L1 antibody at 2ug/ml.



Immunofluorescence of PD-L1 in human tonsil tissue with PD-L1 antibody at 2ug/ml.



Immunocytochemistry of PD-L1 in transfected HEK293 cells with PD-L1 antibody at 1ug/ml. Lower left: Immunocytochemistry in transfected HEK293 cells with control mouse IgG antibody at 1ug/ml.



Flow cytometry analysis of PD-L1 overexpressing HEK293 cells using PD-L1 antibody and control mouse IgG antibody at 10ug/ml. Blue: Untransfected HEK293 cells. Yellow: PD-L1 overexpressing HEK293 cells.