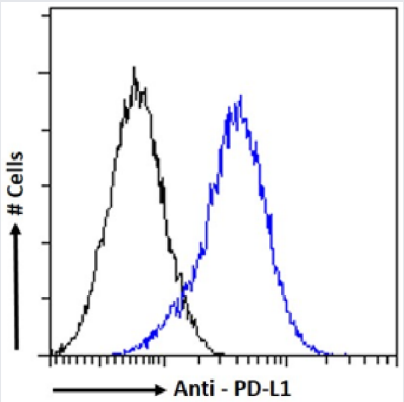
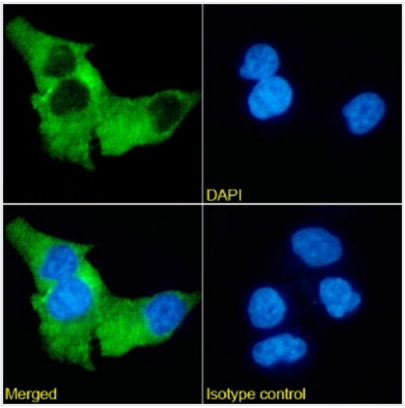
PD-L1 Antibody

PRODUCT OVERVIEW

Product Name	PD-L1, Antibody
Full Product Name	Anti-PD-L1 [XGMHc25.1]
Product Gene Name	anti-PD-L1 antibody
Product Synonym Names	CD274; PDL1; B7-H1; B7H1; B7 homolog 1; hPD-L1; PDCD1L1; PDCD1LG1; PDCD1 ligand 1; Programmed cell death 1 ligand 1; Programmed death ligand 1
Isotype	Rabbit IgG kappa
Clone Number	XGMHc25.1
Species Reactivity	Human
Form/Format	PBS with 0.02% Proclin 300.
Purity/Purification	Purified. Protein A affinity purified
Concentration	1mg/ml (lot specific)
Specificity	This antibody binds human PD-L1.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.
Molecular Weight	33,275 Da
OMIM	605402
3D Structure	ModBase 3D Structure for Q9NZQ7
Animal-free Manufacturing Platform	The recombinant antibody is manufactured using a recombinant, mammalian HEK293-based expression platform. The manufacturing platform is animal-free and animal component-free.
Product Categories/Family for anti-PD-L1 antibody	cancer; oncology; tumor
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PD-L1 antibody	Flow Cytometry (FC/FACS), Immunohistochemistry (IHC)
Application Notes for anti-PD-L1 antibody	This antibody is capable of binding B7-H1 molecules expressed on the surface of M435 by flow cytometry. This antibody was also used for the immunohistochemical analysis of intestinal and gastric cancer tissues (WO2019085238)
Related Product Information for anti-PD-L1 antibody	The original antibody was generated by immunizing BALB/c mice with a human B7-H1 fusion protein. This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format, for improved compatibility with existing reagents, assays and techniques.
Other Notes	Small volumes of anti-PD-L1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PD-L1 purchase	MBS489042 is an antibody targeting PD-L1. Also known as Anti-PD-L1 [XGMHc25.1]. Reactive in Human.



Flow Cytometry (FC/FACS) of anti-PD-L1 antibody
Flow-cytometry using the anti-PD-L1 antibody XGMHc25.1 . MDA-MB-231 cells were stained with an isotype control or the rabbit-chimeric version of XGMHc25.1 (MBS489042, blue line) at a concentration of 1 µg/ml for 30 mins at RT. After washing, bound antibody was detected using Alexa Fluor 488 conjugated goat anti-rabbit IgG and cells analysed on a FACSCanto flow-cytometer.



Immunofluorescence (IF) of anti-PD-L1 antibody
Immunofluorescence staining of MDA-MB-231 cells with anti-PD-L1 XGMHc25.1 Immunofluorescence analysis of paraformaldehyde fixed MDA-MB-231 cells stained with the chimeric rabbit IgG version of XGMHc25.1 (MBS489042) (1:1000 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1500 dilution), showing nuclear staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom MBS489042, DAPI, merged channels and an isotype control. The isotype control was anti-fluorescein antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PD-L1. It may not necessarily be applicable to this product.

NCBI GI #	390979639
NCBI GeneID	29126
NCBI Accession #	NP_001254635.1
UniProt Primary Accession #	Q9NZQ7
UniProt Secondary Accession #	Q14CJ2; Q2V8D5; Q66RK1; Q6WEX4; Q9NUZ5; B2RBA2; B4DU27
UniProt Related Accession #	Q9NZQ7
GenBank Nucleotide #	NM_001267706.1
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; PDCD1L1; PDCD1LG1
UniProt Protein Name	Programmed cell death 1 ligand 1
UniProt Synonym Protein Names	B7 homolog 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
NCBI Protein Information	programmed cell death 1 ligand 1; B7 homolog 1; CD274 antigen; PDCD1 ligand 1; programmed death ligand 1

UniProt Comments for PD-L1	CD274: Involved in the costimulatory signal, essential for T- cell proliferation and production of IL10 and IFNG, in an IL2- dependent and a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation and cytokine production. Belongs to the immunoglobulin superfamily. BTN/MOG family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 9p24 Cellular Component: plasma membrane; integral to membrane; endomembrane system; external side of plasma membrane Molecular Function: protein binding Biological Process: regulation of activated T cell proliferation; cell surface receptor linked signal transduction; negative regulation of interleukin-10 production; negative regulation of interferon-gamma production; negative regulation of activated T cell proliferation; T cell costimulation; immune response; positive regulation of T cell proliferation; signal transduction
Research Articles on PD-L1	**1.** Upregulation of B7-H1 in gastric cancer tissue correlated with disease progression and prognosis of gastric cancer patients.
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