

### International Office

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# EB06621 - Goat Anti-CD274 / PD-L1 Antibody

Size: 100µg specific antibody in 200µl



## **Target Protein**

**Principal Names:** CD274 antigen, PD-L1, PDCD1LG1, B7-H, B7H1, PDL1, PDCD1L1, programmed cell death 1 ligand 1, PDL1, HGNC:17635, CD274, CD274 molecule,

MGC142294, MGC142296 Official Symbol: CD274

Accession Number(s): NP\_054862.1; NP\_001254635.1

Human GeneID(s): 29126

Important Comments: This antibody is expected to recognize reported isoforms a and b

(NP\_054862.1; NP\_001254635.1) only.

## Immunogen

Peptide with sequence CKKQSDTHLEET, from the C Terminus of the protein sequence according to NP\_054862.1; NP\_001254635.1.

Please note the peptide is available for sale.

## **Purification and Storage**

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Aliquot and store at -20°C. Minimize freezing and thawing.

## **Applications Tested**

Peptide ELISA: antibody detection limit dilution 1:128000.

**Western blot:** Approx 50kDa band observed in Human Heart lysates and in lysates of cell line U2OS (calculated MW of 33.3kDa according to 1NP\_054862.1). This band was successfully blocked by incubation with the immunizing peptide and is routinely observed by other sources. Recommended concentration: 0.01-0.1µg/ml. Primary incubation 1 hour at room temperature.

**Immunofluorescence:** Strong expression of the protein seen in th membrane and cytoplasm of U2OS and A431 cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of Jurkat cells. Recommended concentration: 10ug/ml.

## **Species Reactivity**

Tested: Human

Expected from sequence similarity: Human

### **Specific References**

This antibody (previous batch) has been successfully used in Western blot on Human:

Guozhi Xia, Xiaopu Zheng, Xinye Yao, Xiaowei Yao, Zhongwei Liu, Junkui Wang. Expression of programmed cell death-1 and its ligand B7 homolog 1 in peripheral blood lymphocytes from patients with peripartum cardiomyopathy.

Clin Cardiol. 2016 Dec 27.

PMID: 28026044

This antibody (previous batch) has been successfully used in Western blot and IHC on Human:

Chen J, Li G, Meng H, Fan Y, Song Y, Wang S, Zhu F, Guo C, Zhang L, Shi Y. Upregulation of B7-H1 expression is associated with macrophage infiltration in hepatocellular carcinomas.

Cancer Immunol Immunother. 2012 Jan;61(1):101-8.

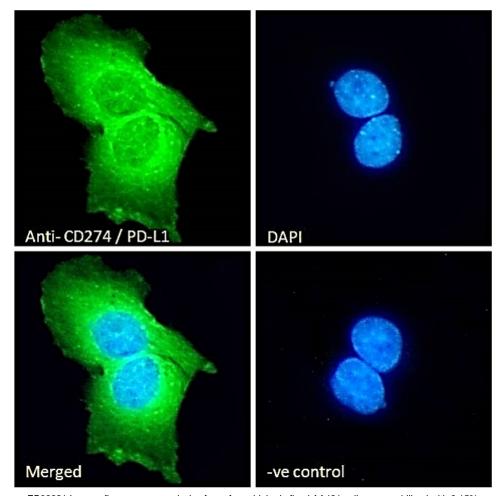
PMID: 21853301

250kDa 150kDa 100kDa 75kDa 50kDa 37kDa 25kDa 20kDa

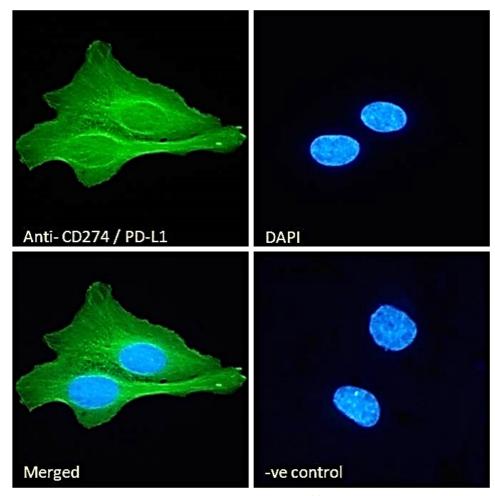
EB06621 (0.01µg/ml) staining of Human Heart lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



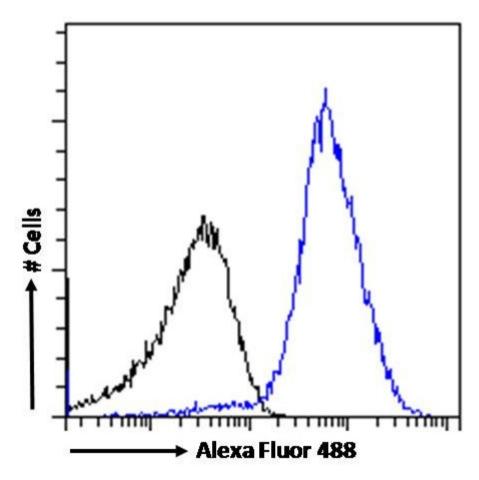
 $EB06621 \ (0.1 \mu g/ml) \ staining \ of \ U2OS \ cell \ lysate \ (35 \mu g \ protein \ in \ RIPA \ buffer). \ Detected \ by \ chemiluminescence.$ 



EB06621 Immunofluorescence analysis of paraformaldehyde fixed AA431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06621 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06621 Flow cytometric analysis of paraformaldehyde fixed Jurkat cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control:

Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.