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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

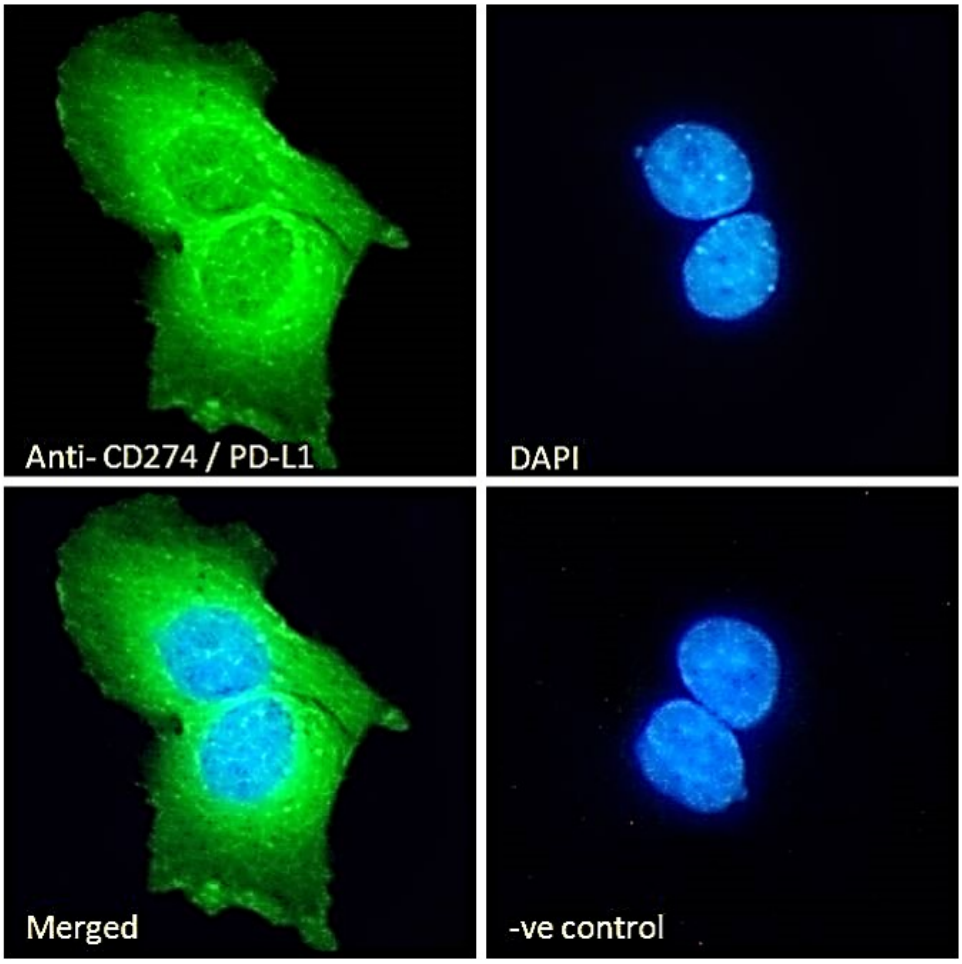
This antibody (previous batch) has been successfully used in Western blot on Human:
Guozhi Xia, Xiaopu Zheng, Xinye Yao, Xiaowei Yao, Zhongwei Liu, Junkui Wang. Expression of programmed cell death-1 and its ligand B7 homolog 1 in peripheral blood lymphocytes from patients with peripartum cardiomyopathy.
Clin Cardiol. 2016 Dec 27.
PMID: 28026044

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

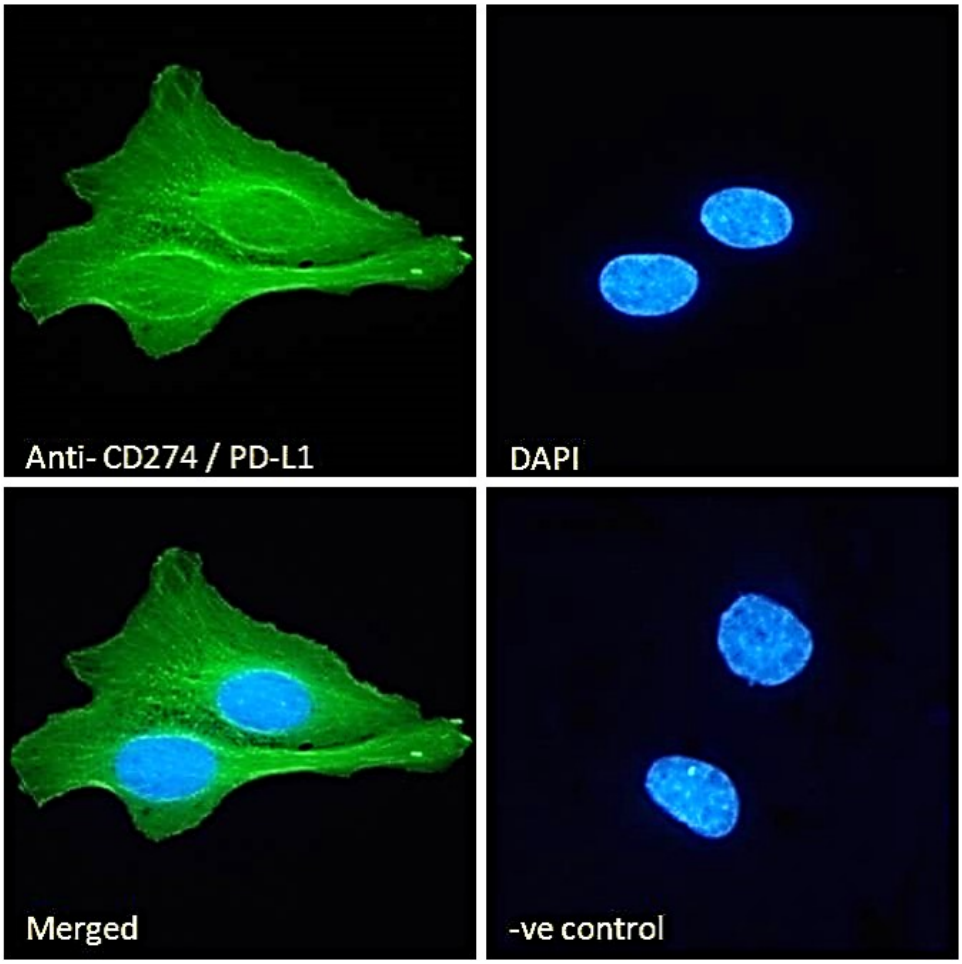
Chen J, Li G, Meng H, Fan Y, Song Y, Wang S, Zhu F, Guo C, Zhang L, Shi Y. Upregulation of B7-H1 expression is associated with macrophage infiltration in hepatocellular carcinomas.
Cancer Immunol Immunother. 2012 Jan;61(1):101-8.
PMID: 21853301

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

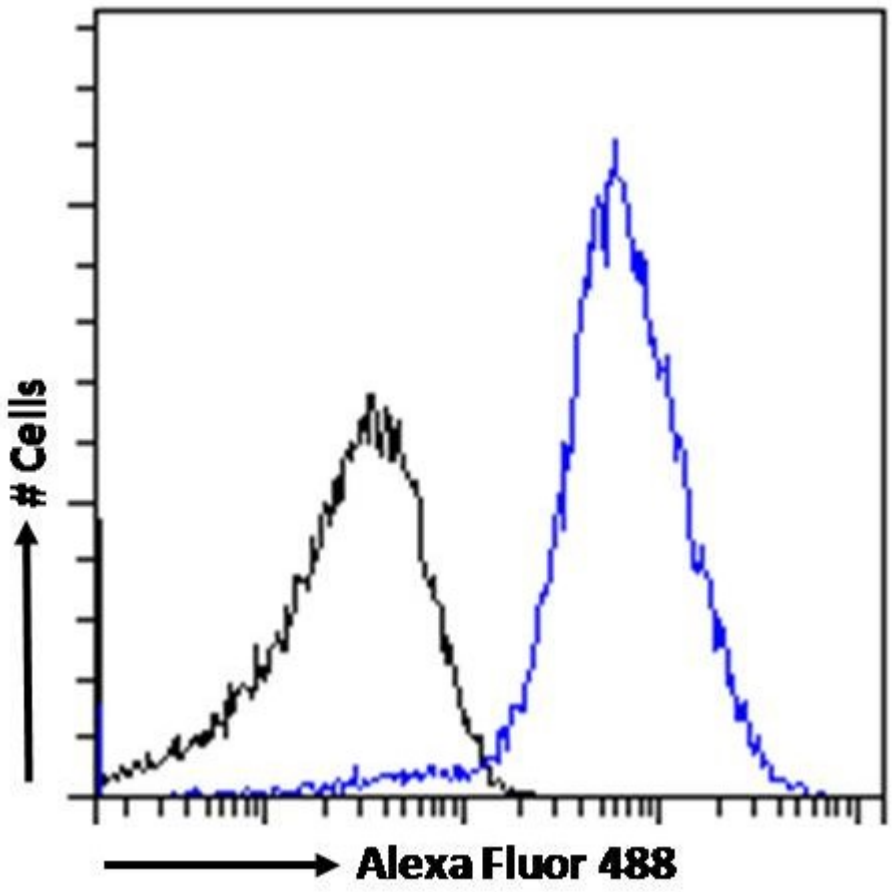
EB06621 (0.1µg/ml) staining of U2OS cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



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.