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diagnostic or therapeutic use.**

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 40kDa band observed in Human Heart lysates. The observed molecular weight corresponds to glycosylation (calculated MW of 33.3kDa according to NP_054862.1).. An additional band was also consistently observed at 55kDa, and was successfully blocked by incubation with the immunizing peptide. Preliminary testing also showed the 37+55kDa bands in lysates of cell lines, A549, Daudi, HeLa, HepG2 and Jurkat Recommended concentration: 0.03-0.1µg/ml. Primary incubation 1 hour at room temperature.

IHC: In paraffin embedded Human Placenta shows membranous staining of cytotrophoblasts. Recommended concentration: 2-4µg/ml.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm of A431 and U2OS 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 has been successfully used in Western blot in 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 has been successfully used in Western blot and IHC in 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 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.

EB06621 (2µg/ml) staining of paraffin embedded Human Placenta. Microwaved antigen retrieval with citrate buffer pH 6, HRP-staining.

EB06621 Negative Control showing staining of paraffin embedded Human Placenta, with no primary antibody.

EB06621 Immunofluorescence analysis of paraformaldehyde fixed A431 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 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 (0.3µg/ml) staining of Human Heart (A) lysate + Blocking peptide (B) (35µg protein in RIPA buffer). Detected by chemiluminescence.