

Anti-PD1 Antibody [1F2]

EM1707-60



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, IHC-P, FC
Molecular Wt:	Predicted band size: 32 kDa
Clone number:	1F2

Description: Pdc1-1 (Programmed Cell Death-1 protein), also designated CD279, is a type I transmembrane receptor and a member of the immunoglobulin gene superfamily. Pdc1-1 contains an immunoreceptor tyrosine-based inhibitory motif (ITIM) within the cytoplasmic domain, which is conserved between the mouse and human homologs. Expression of Pdc1-1 is detected in mouse thymus, and it is induced in stimulated B and T cell lines, where it may play a role in the negative regulation of various immune responses. Receptors such as Pdc1-1 function by recruiting tyrosine phosphatases, including SHP-1 and SHIP, which are responsible for altering various B cell responses. Additionally, in activated lymphocytes, Pdc1-1 mediates the activation of the classical type of programmed cell death.

Immunogen: Recombinant protein within Human PD1 aa 1-200 / 288.

Positive control: Human tonsils tissue, Jurkat, recombinant PD1 protein.

Subcellular location: Membrane.

Database links: SwissProt: Q15116 Human

Recommended Dilutions:

WB	1:500-1:2,000
IF-Cell	1:50-1:200
IHC-P	1:100-1:500
FC	1:50-1:100

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

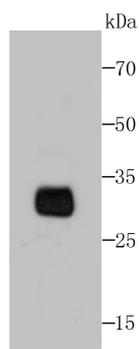


Fig1: Western blot analysis of PD1 on PD1 transfected 293FT cell lysate using anti-PD1 antibody at 1/1,000 dilution.

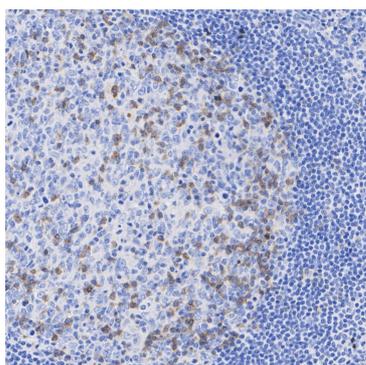


Fig2: Immunohistochemical analysis of paraffin-embedded human tonsils tissue with Mouse anti-PD1 antibody (EM1707-60) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (EM1707-60) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

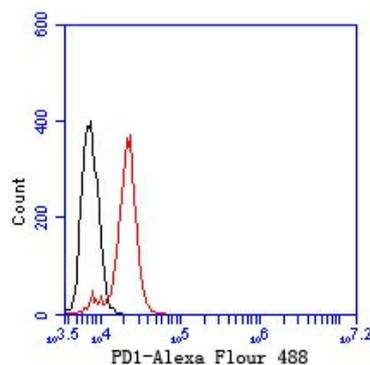


Fig3: Flow cytometric analysis of HeLa cells labeling PD1.

Cells were fixed and permeabilized. Then stained with the primary antibody (EM1707-60, 1/100) (red). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a Alexa Fluor® 488 conjugate-Goat anti-Mouse IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Sato Y et al. The PD-1/PD-L1 axis may be aberrantly activated in occupational cholangiocarcinoma. *Pathol Int* 67(3):163-170 (2017).
2. Zhou ZH et al. The prognostic value and pathobiological significance of Glasgow microenvironment score in gastric cancer. *J Cancer Res Clin Oncol* 143(5):883-894 (2017).

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