

Anti-TIM 3 Antibody [1E5]

EM1701-20



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, IHC-P, FC
Molecular Wt:	Predicted band size: 33 kDa
Clone number:	1E5

Description: Cell surface receptor implicated in modulating innate and adaptive immune responses. Generally accepted to have an inhibiting function. Reports on stimulating functions suggest that the activity may be influenced by the cellular context and/or the respective ligand. Regulates macrophage activation. Inhibits T-helper type 1 lymphocyte (Th1)-mediated auto- and alloimmune responses and promotes immunological tolerance. In CD8+ cells attenuates TCR-induced signaling, specifically by blocking NF-kappaB and NFAT promoter activities resulting in the loss of IL-2 secretion. The function may implicate its association with LCK proposed to impair phosphorylation of TCR subunits, and/or LGALS9-dependent recruitment of PTPRC to the immunological synapse.

Immunogen: Recombinant protein with Human TIM 3 1-89 / 301.

Positive control: THP-1 cell lysate, A549 cell lysate, HepG2 cell lysate, human lung cancer tissue, human spleen tissue, human tonsil tissue, 293T, Daudi.

Subcellular location: Membrane. Cell junction.

Database links: SwissProt: Q8TDQ0 Human

Recommended Dilutions:

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

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% 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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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of TIM 3 on different lysates with Mouse anti-TIM 3 antibody (EM1701-20) at 1/2,000 dilution.

Lane 1: THP-1 cell lysate (no heat)

Lane 2: A549 cell lysate (no heat)

Lane 3: HepG2 cell lysate (no heat)

Notice: no heat means the lysate is not boiled.

Lysates/proteins at 30 µg/Lane.

Predicted band size: 33 kDa

Observed band size: 42 kDa

Exposure time: 5 minutes 20 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (EM1701-20) at 1/2,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

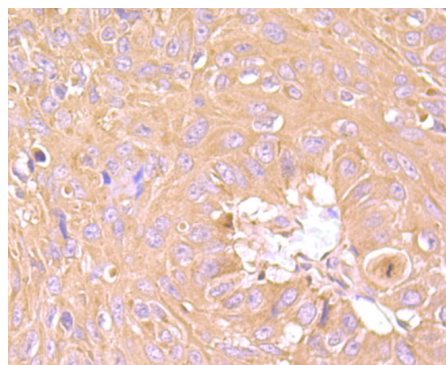
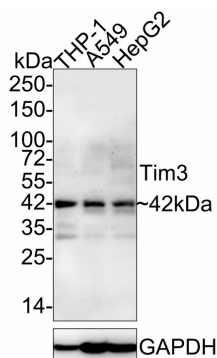


Fig2: Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Tim3 antibody. Counter stained with hematoxylin.

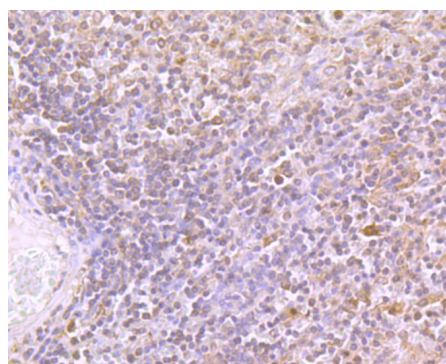


Fig3: Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Tim3 antibody. Counter stained with hematoxylin.

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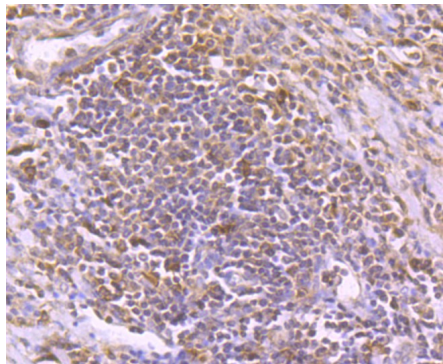


Fig4: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Tim3 antibody. Counter stained with hematoxylin.

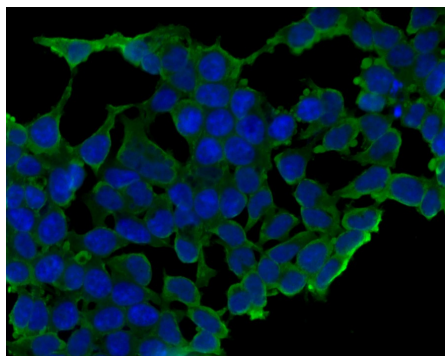


Fig5: Immunocytochemistry analysis of 293T cells labeling Tim3 with Mouse anti-Tim3 antibody (EM1701-20) at 1/50 dilution.

Cells were fixed in 4% paraformaldehyde for 30 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and then blocked with 2% BSA for 30 minutes at room temperature. Cells were then incubated with Mouse anti-Tim3 antibody (EM1701-20) at 1/50 dilution in 2% BSA overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. Nuclear DNA was labelled in blue with DAPI.

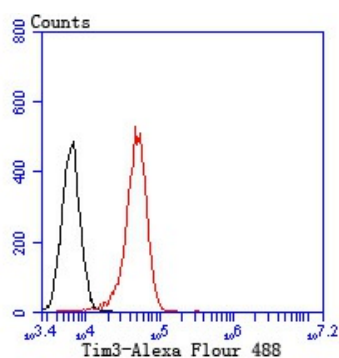


Fig6: Flow cytometric analysis of Daudi cells with Tim3 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

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

Background References

1. Weber JK et al. Phosphatidylserine-Induced Conformational Modulation of Immune Cell Exhaustion-Associated Receptor TIM3. *Sci Rep* 7(1):13579 (2017).
2. Tao J et al. Increased TIM3+CD8+T cells in Myelodysplastic Syndrome patients displayed less perforin and granzyme B secretion and higher CD95 expression. *Leuk Res* 51:49-55 (2016).

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