

Anti-TGF beta 1 Antibody

IRS205RB



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	mlHC
Molecular Wt:	Predicted band size: 44 kDa

Description:	Transforming growth factor beta 1 or TGF- β 1 is a polypeptide member of the transforming growth factor beta superfamily of cytokines. It is a secreted protein that performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation, and apoptosis. In humans, TGF- β 1 is encoded by the TGFB1 gene. TGF- β is a multifunctional set of peptides that controls proliferation, differentiation, and other functions in many cell types. TGF- β acts synergistically with transforming growth factor-alpha (TGF- α) in inducing transformation. It also acts as a negative autocrine growth factor. Dysregulation of TGF- β activation and signaling may result in apoptosis. Many cells synthesize TGF- β and almost all of them have specific receptors for this peptide. TGF- β 1, TGF- β 2, and TGF- β 3 all function through the same receptor signaling systems. TGF- β 1 was first identified in human platelets as a protein with a molecular mass of 25 kilodaltons with a potential role in wound healing. It was later characterized as a large protein precursor (containing 390 amino acids) that was proteolytically processed to produce a mature peptide of 112 amino acids. TGF- β 1 plays an important role in controlling the immune system, and shows different activities on different types of cell, or cells at different developmental stages. Most immune cells (or leukocytes) secrete TGF- β 1.
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Positive control: Human tonsil tissue.

Subcellular location: Extracellular matrix, Secreted.

Database links: SwissProt: P01137 Human

Recommended Dilutions:
mlHC 1:100

Storage Buffer: PBS (pH7.4), 0.1% 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

Service mail:support@huabio.cn

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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

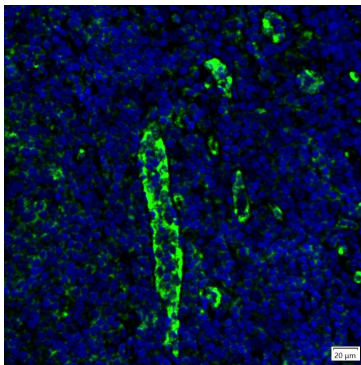


Fig1: mIHC analysis of human tonsil tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-TGF beta 1 antibody (IRS205RB) at 1/100 dilution. The immunostaining was performed with the IRISKit® HyperView mTSA Kit (MH900206). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95°C. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

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

Background References

1. Takahara T. et. al. TGFB1 mRNA expression is associated with poor prognosis and specific features of inflammation in ccRCC. Virchows Arch. 2022 Feb
2. Abdel Mouti M. et. al. TGFB1/INHBA Homodimer/Nodal-SMAD2/3 Signaling Network: A Pivotal Molecular Target in PDAC Treatment. Mol Ther. 2021 Mar

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