

Anti-TGF beta Receptor II Antibody [JE59-90]

HA721480



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 65 kDa
Clone number:	JE59-90

Description: Transforming growth factor, beta receptor II (70/80kDa) is a TGF beta receptor. TGFBR2 is its human gene. It is a tumor suppressor gene. This gene encodes a member of the serine/threonine protein kinase family and the TGFβ receptor subfamily. The encoded protein is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with another receptor protein, and binds TGF-β. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation. Mutations in this gene have been associated with Marfan syndrome, Loeys-Deitz aortic aneurysm syndrome, Osler-Weber-Rendu syndrome, and the development of various types of tumors. At least 73 disease-causing mutations in this gene have been discovered. Alternatively spliced transcript variants encoding different isoforms have been characterized.

Immunogen: Recombinant protein.

Positive control: A549 cell lysate, rat lung tissue lysate.

Subcellular location: Cell membrane, Membrane raft; Secreted.

Database links: SwissProt: P37173 Human | P38438 Rat

Recommended Dilutions:
WB 1:1,000

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

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

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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Images

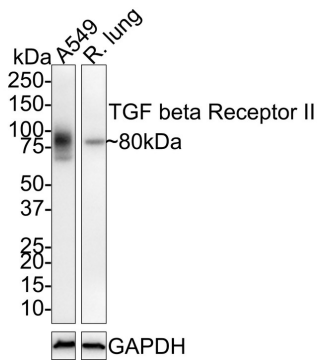


Fig1: Western blot analysis of TGF beta Receptor II on different lysates with Rabbit anti-TGF beta Receptor II antibody (HA721480) at 1/1,000 dilution.

Lane 1: A549 cell lysate (20 µg/Lane)

Lane 2: Rat lung tissue lysate (40 µg/Lane)

Predicted band size: 65 kDa

Observed band size: 80 kDa

Exposure time: 1 minute 37 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 (HA721480) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

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

Background References

1. Sun L et al. PD-L1 promotes myofibroblastic activation of hepatic stellate cells by distinct mechanisms selective for TGF- β receptor I versus II. Cell Rep. 2022 Feb
2. Xie F et al. Breast cancer cell-derived extracellular vesicles promote CD8⁺ T cell exhaustion via TGF- β type II receptor signaling. Nat Commun. 2022 Aug

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