Anti-TGF beta Receptor II Antibody [PSH01-50] HA721693

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 65 kDa
Clone number:	PSH01-50

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 TGFB 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-beta. 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 within human TGF beta Receptor II aa 23-166 (Extracellular).

Positive control: HepG2 cell lysate, A549 cell lysate, HT-29 cell lysate.

Subcellular location: Cell membrane, Membrane raft; Secreted.

Database links: SwissProt: P37173 Human

Recommended Dilutions:

WB 1:1,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

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

Purity: Protein A affinity purified.

Images

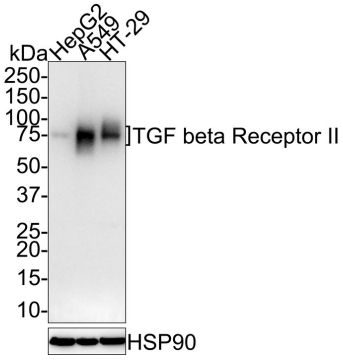

Fig1: Western blot analysis of TGF beta Receptor II on different lysates with Rabbit anti-TGF beta Receptor II antibody (HA721693) at 1/1,000 dilution.

Lane 1: HepG2 cell lysate
Lane 2: A549 cell lysate
Lane 3: HT-29 cell lysate

Lysates/proteins at 30 µg/Lane.

Predicted band size: 65 kDa
Observed band size: 65-80 kDa

Exposure time: 3 minutes 10 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 (HA721693) 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.

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