

# Anti-TGF beta 1 Antibody

## HA500496



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 44 kDa.

**Description:** Transforming growth factor beta-1 proprotein: Precursor of the Latency-associated peptide (LAP) and Transforming growth factor beta-1 (TGF-beta-1) chains, which constitute the regulatory and active subunit of TGF-beta-1, respectively. Multifunctional protein that controls proliferation, differentiation and other functions in many cell types. Many cells synthesize TGFB1 and have specific receptors for it. It positively and negatively regulates many other growth factors. It plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts.

**Immunogen:** Recombinant protein within human TGF beta 1 aa 20-210.

**Positive control:** PC-3 cell lysate, A549 cell lysate, U87 cell lysate, HeLa cell lysate, K562 cell lysate.

**Subcellular location:** Extracellular matrix, Secreted.

**Database links:** SwissProt: P01137 Human

**Recommended Dilutions:**

**WB** 1:500

**Storage Buffer:** 1\*TBS (pH7.4), 0.2% BSA, 50% 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:** Immunogen affinity purified.

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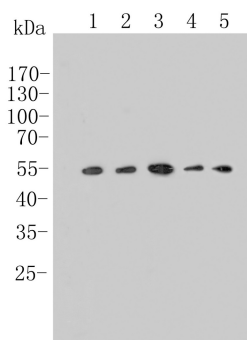
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## Images



**Fig1:** Western blot analysis of TGF beta 1 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (HA500496, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

**Positive control:**

Lane 1: PC-3 cell lysate

Lane 2: A549 cell lysate

Lane 3: U87 cell lysate

Lane 4: HeLa cell lysate

Lane 5: K562 cell lysate

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

## Background References

1. Robertson I.B., et al. Regulation of the bioavailability of TGF-beta and TGF-beta-related proteins. Cold Spring Harb. Perspect. Biol. 8:0-0(2016).
2. Miyazono K., et al. A role of the latent TGF-beta 1-binding protein in the assembly and secretion of TGF-beta 1. EMBO J. 10:1091-1101(1991).

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