

Active Recombinant Rat Tgfb1 protein, His-tagged

Cat. No. Tgfb1-531R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Tgfb1 protein(P17246)(279~390 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	279-390 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Transforming Growth Factor Beta 1 (TGFb1) is a multifunctional set of peptides that controls proliferation, differentiation, and other functions in many cell types. TGF beta 1 has been shown to interact with TGF beta receptor 1, Decorin, LTBP1 and so on. Besides, Latent Transforming Growth Factor Beta Binding Protein 1 (LTBP1) has been identified as an interactor of TGFb1, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat TGFb1 and recombinant mouse LTBP1 (high homology with rat). Briefly, TGFb1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to LTBP1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-TGFb1pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at

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37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of TGFb1 and LTBP1 was shown, and this effect was in a dose dependent manner.

Molecular Mass 14.1kDa

Purity > 95% as determined by SDS-PAGE.

Storage Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name Tgfb1 transforming growth factor, beta 1 [Rattus norvegicus]

Official Symbol Tgfb1

Synonyms TGFB1; transforming growth factor, beta 1; transforming growth factor beta-1; TGF-beta-1; transforming growth factor, beta-1; Tgfb;

Gene ID 59086

mRNA Refseq NM_021578

Protein Refseq NP_067589

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