

Active Recombinant Rat Tgfb2 protein, His-tagged

Cat. No. Tgfb2-229R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Tgfb2 protein(Q07257)(331~442 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	331-442 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 2 (TGF-β2) is a secreted protein known as a cytokine that performs many cellular functions and has a vital role during embryonic development (alternative names: Glioblastoma-derived T-cell suppressor factor, G-TSF, BSC-1 cell growth inhibitor, Polyergin, Cetermin). It is an extracellular glycosylated protein. It is known to suppress the effects of interleukin dependent T-cell tumors. Besides, Vitronectin (VTN) has been identified as an interactor of TGF-β2, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat TGF-β2 and recombinant rat VTN. Briefly, TGF-β2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to VTN-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-TGF-β2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were

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aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of TGF-β2 and VTN was shown, and this effect was in a dose dependent manner.

Molecular Mass	13.9kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 97% 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

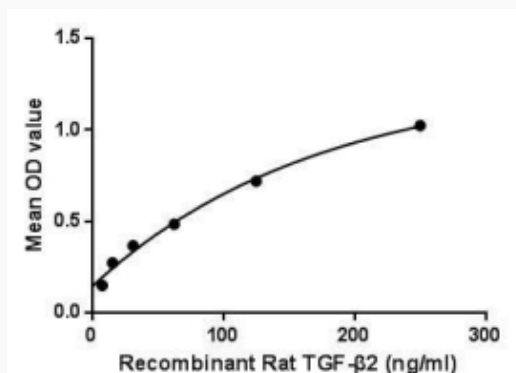
Gene Name	Tgfb2 transforming growth factor, beta 2 [<i>Rattus norvegicus</i>]
Official Symbol	Tgfb2
Synonyms	TGFB2; transforming growth factor, beta 2; transforming growth factor beta-2; TGF-beta-2; TGF beta 2 protein;
Gene ID	81809
mRNA Refseq	NM_031131
Protein Refseq	NP_112393

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Activity



SDS-PAGE

