

Active Recombinant Pig TGFB1 protein, His-tagged

Cat. No. TGFB1-530P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Pig TGFB1 protein(P07200)(279~390 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Pig
Source	E.coli
ProteinLength	279-390 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Transforming growth factor beta 1 or TGF-β1 is a polypeptide member of the transforming growth factor beta superfamily of cytokines. It is a secreted protein that performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation and apoptosis. TGF-β1 plays an important role in controlling the immune system, and shows different activities on different types of cell, or cells at different developmental stages. Besides, Latent Transforming Growth Factor Beta Binding Protein 1 (LTBP1) has been identified as an interactor of TGF-β1, thus a binding ELISA assay was conducted to detect the interaction of recombinant pig TGF-β1 and recombinant pig LTBP1. Briefly, TGF-β1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μL 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-TGF-β1 pAb, then aspirated and washed 3 times. After

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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 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of TGF-β1 and LTBP1 was shown, and this effect was in a dose dependent manner.

Molecular Mass	14.3kDa
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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TGFB1 transforming growth factor, beta 1 [<i>Sus scrofa</i>]
Official Symbol	TGFB1
Synonyms	TGFB1; transforming growth factor, beta 1; transforming growth factor beta-1; transforming growth factor-beta-1; transforming growth factor, beta 1 (Camurati-Engelmann disease); TGF-BETA-1;
Gene ID	397078
mRNA Refseq	NM_214015

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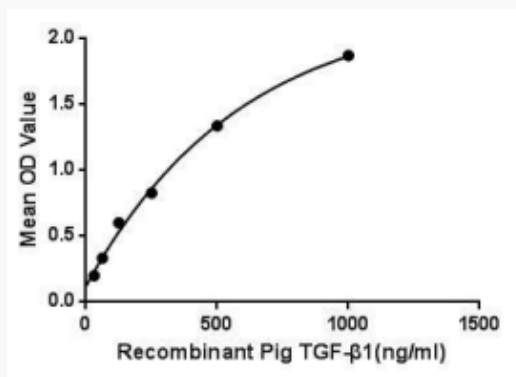
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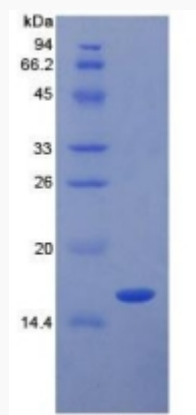
Protein Refseq

NP_999180

Activity



SDS-PAGE



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