

Transforming Growth Factor Beta 2 Active Protein | TGFb2 active protein

Active Transforming Growth Factor Beta 2 (TGFb2)

CATALOG #
AAA150085

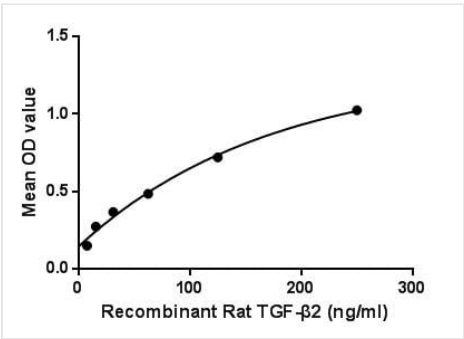
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

Transforming Growth Factor Beta 2; Active Transforming Growth Factor Beta 2 (TGFb2); TGF-B2; TGF-Beta2; G-TSF; LAP; Cetermin; Polyergin; Latency-associated peptide; BSC-1 cell growth inhibitor; Glioblastoma-derived T-cell suppressor factor; TGFb2 active protein

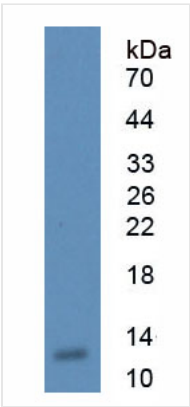
PRODUCT SPECIFICATIONS

Purity/Purification	>97%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Ala331~Ser442
Sequence Length	442
Applicable Applications for TGFb2 active protein	Activity Assay, Cell Culture
Species	Rat
Tag	N-terminal His Tag
Isoelectric Point	6.7
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

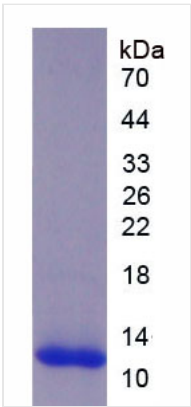


Bioactivity

Transforming growth factor-beta 2 (TGF-2) 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, Polyargin, 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-2, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat TGF-2 and recombinant rat VTN. Briefly, TGF-2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100L were then transferred to VTN-coated microtiter wells and incubated for 2h at 37. Wells were washed with PBST and incubated for 1h with anti-TGF-2 pAb, 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 37. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of TGF-2 and VTN was shown in Figure 1, and this effect was in a dose dependent manner. Figure. The binding activity of TGF-2 with VTN.



WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for TGFb2 active protein	Cytokine; Infection immunity
--	------------------------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	20981713
NCBI GeneID	81809
UniProt Accession #	Q07257
Molecular Weight	Predicted Molecular Mass: 13.9kDa Accurate Molecular Mass: 12kDa
NCBI Official Full Name	Transforming growth factor beta-2 proprotein

NCBI Official Synonym Full Names	transforming growth factor, beta 2
NCBI Official Symbol	Tgfb2
NCBI Official Synonym Symbols	TGF-B2
NCBI Protein Information	transforming growth factor beta-2 proprotein; transforming growth factor beta-2
UniProt Protein Name	Transforming growth factor beta-2
UniProt Gene Name	Tgfb2
UniProt Synonym Gene Names	TGF-beta-2; LAP
UniProt Entry Name	TGFB2_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/tgfb2-active-protein/transforming-growth-factor-beta-2/150085>