

Transforming Growth Factor Beta 1 (TGFb1) Active Protein | TGFb1 active protein

Active Transforming Growth Factor Beta 1 (TGFb1)

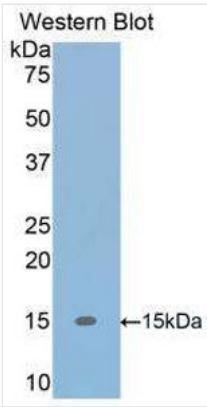
CATALOG # AAA148233	HOST E. coli	APPLICATIONS Activity Assay
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PRODUCT SYNONYMS

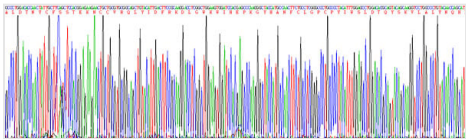
Transforming Growth Factor Beta 1 (TGFb1); Active Transforming Growth Factor Beta 1 (TGFb1); TGF-B1; CED; DPD1; LAP; Camurati-Engelmann Disease; Latency-associated peptide; TGFb1 active protein

PRODUCT SPECIFICATIONS

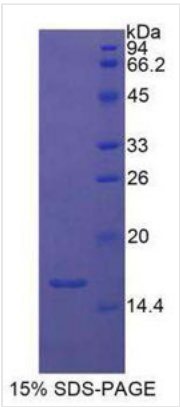
Host	E. coli
Purity/Purification	>98%
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.
Concentration	Original Concentration: 400ug/mL (varies by lot)
Applicable Applications for TGFb1 active protein	Activity Assay
Source	Prokaryotic expression.
Residues	Ala279~Ser390
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per ug (determined by the LAL method)
Predicted isoelectric point	8.4
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: 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.



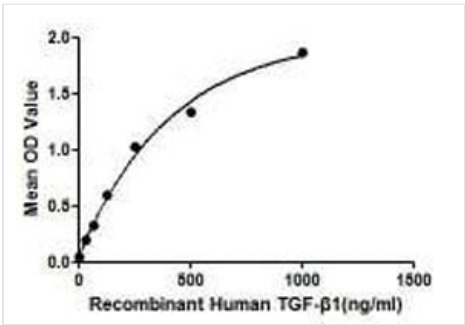
WB (Western Blot)
Figure 4. Western Blot Sample: Recombinant TGF-Beta1, Human; Antibody: Rabbit Anti8Human TGF-Beta1 Ab



Identification
Figure 2. Gene Sequencing (extract)



SDS_PAGE
Figure 3. SDS-PAGE Sample: Active recombinant TGF-Beta1, Human



ELISA
TGF-beta1 (Transforming growth factor beta 1) 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. Thus we have conducted a binding ELISA assay to detect the interaction of recombinant human TGF-Beta1 with recombinant human LTBP1. Briefly, TGF-Beta1 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-LTBP1 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°C. Finally, add 50BL stop solution to the wells and read at 450nm immediately. The binding activity of TGF-Beta1 with LTBP1 was shown in Figure 1 and this effect was in a dose dependent manner. Figure 1. The binding activity of TGF-Beta1 with LTBP1.

AL DTNYCFSSTE KNCCVRQLYI
DFRKDLGNKH IHEPKGYHAN FCLGPCPYIW SLDQYSKVL ALYQHNPGA
SAAPCCVPQA LEPLPIVYV GRKPKVEQLS NMIVRSCKCS

Sequence

ADDITIONAL INFORMATION

Product Categories/Family for TGFb1 active protein	Cytokine; Tumor immunity; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	63025222
NCBI GeneID	7040
NCBI Accession #	NP_000651.3
NCBI GenBank Nucleotide #	NM_000660.6

UniProt Accession #	P01137 ; Q9UCG4 ; A8K792
Molecular Weight	Predicted Molecular Mass: 14.1kDa Accurate Molecular Mass: 15kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	transforming growth factor beta-1 preproprotein
NCBI Official Synonym Full Names	transforming growth factor beta 1
NCBI Official Symbol	TGFB1
NCBI Official Synonym Symbols	CED; LAP; DPD1; TGFB; TGFbeta
NCBI Protein Information	transforming growth factor beta-1
UniProt Protein Name	Transforming growth factor beta-1
UniProt Gene Name	TGFB1
UniProt Synonym Gene Names	TGFB; TGF-beta-1; LAP

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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/transforming-growth-factor-beta-1-tgfb1/148233>