

Datasheet for ABIN4949126

TGFB1 Protein (AA 30-390) (His tag)[Go to Product page](#)**3** Images

Overview

Quantity:	50 µg
Target:	TGFB1
Protein Characteristics:	AA 30-390
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TGFB1 protein is labelled with His tag.
Application:	Functional Studies (Func)

Product Details

Sequence:	AA 30-390
Characteristics:	This protein carries a polyhistidine tag at the N-terminus. The protein has a calculated MW of 42.1 kDa (monomer). As a result of glycosylation and Interchain disulfide bond, the protein migrates as 38-43 kDa (LAP) and 12 kDa (TGFB1) under reducing (R) condition, and 80-90 kDa (LAP) and 26 kDa (TGFB1) under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	TGFB1
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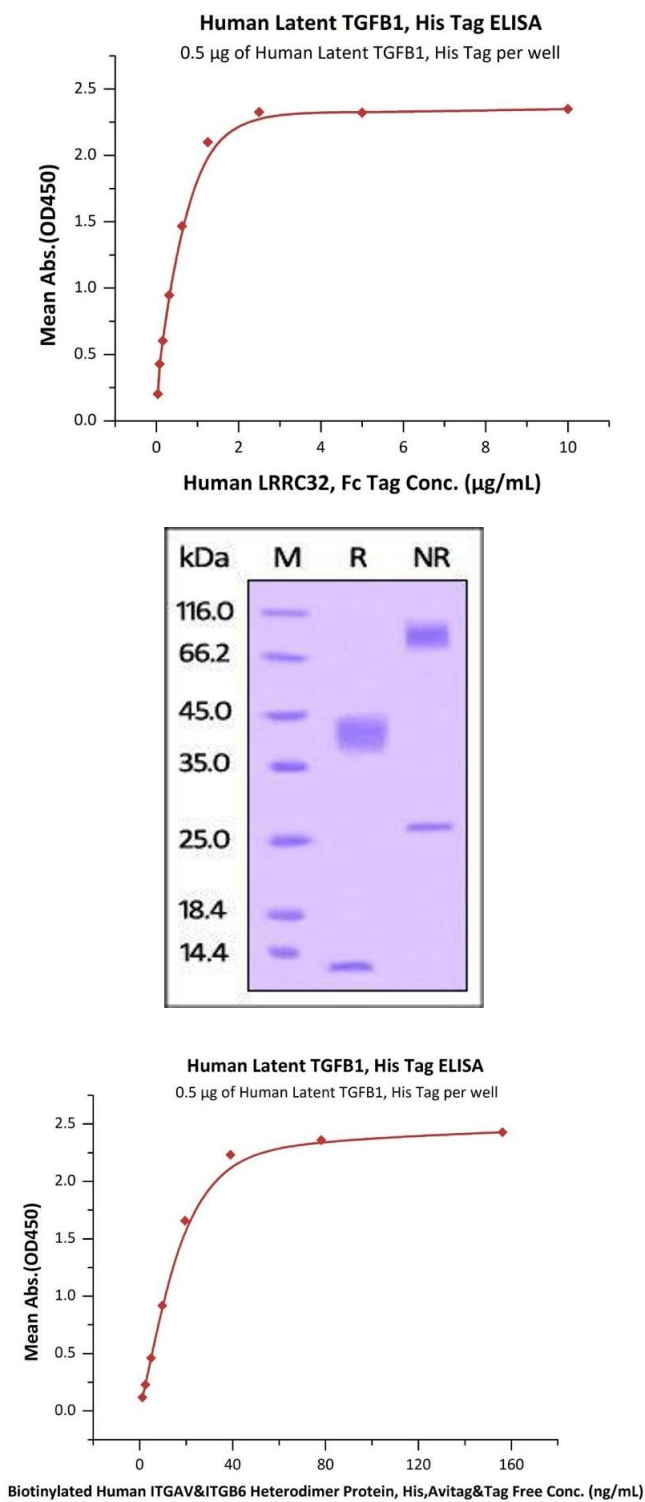
Target Details

Alternative Name:	TGF-beta 1 (TGFB1 Products)
Background:	<p>Transforming growth factor beta 1 (TGFB1) is also known as TGF-β1, CED, DPD1, TGFB. 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. The TGFB1 protein helps control the growth and division (proliferation) of cells, the process by which cells mature to carry out specific functions (differentiation), cell movement (motility), and the self-destruction of cells (apoptosis). The TGFB1 protein is found throughout the body and plays a role in development before birth, the formation of blood vessels, the regulation of muscle tissue and body fat development, wound healing, and immune system function. TGFB1 is particularly abundant in tissues that make up the skeleton, where it helps regulate bone growth, and in the intricate lattice that forms in the spaces between cells (the extracellular matrix). Within cells, this protein is turned off (inactive) until it receives a chemical signal to become active. TGFB1 plays an important role in controlling the immune system, and shows different activities on different types of cell, or cells at different developmental stages. Most immune cells (or leukocytes) secrete TGFB1. TGFB1 has been shown to interact with TGF beta receptor 1, LTBP1, YWHAE, EIF3I and Decorin.</p>
Molecular Weight:	42.6 kDa (monomer)
NCBI Accession:	NP_000651
Pathways:	EGFR Signaling Pathway , Dopaminergic Neurogenesis , Cellular Response to Molecule of Bacterial Origin , Glycosaminoglycan Metabolic Process , Regulation of Leukocyte Mediated Immunity , Regulation of Muscle Cell Differentiation , Positive Regulation of Immune Effector Process , Cell-Cell Junction Organization , Production of Molecular Mediator of Immune Response , Ribonucleoside Biosynthetic Process , Skeletal Muscle Fiber Development , Regulation of Carbohydrate Metabolic Process , Protein targeting to Nucleus , Autophagy , Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



ELISA

Image 1. Immobilized Human Latent TGFB1, His Tag (ABIN4949126,ABIN4949127) at 5 µg/mL (100 µL/well) can bind Human LRRC32, Fc Tag (ABIN5674638,ABIN6809961) with a linear range of 0.039-0.625 µg/mL (Routinely tested).

SDS-PAGE

Image 2. Human Latent TGFB1, His Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

ELISA

Image 3. Immobilized Human Latent TGFB1, His Tag (ABIN4949126,ABIN4949127) at 5 µg/mL (100 µL/well) can bind Biotinylated Human ITGAV&ITGB6 Heterodimer Protein, His,Avitag&Tag Free (ABIN5674599,ABIN6253672) with a linear range of 1-20 ng/mL (QC tested).