Datasheet for ABIN1112028

TGFB2 Protein (His tag)

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Overview

Quantity:	100 µg
Target:	TGFB2
Origin:	Human
Source:	Tobacco (Nicotiana benthamiana)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGFB2 protein is labelled with His tag.
Application:	Western Blotting (WB), Immunogen (Imm), ELISA, Standard (STD)

Product Details

Sequence:	HHHHHHALDA AYCFRNVQDN CCLRPLYIDF KRDLGWKWIH EPKGYNANFC AGACPYLWSS DTQHSRVLSL YNTINPEASA SPCCVSQDLE PLTILYYIGK TPKIEQLSNM IVKSCKCS
Specificity:	Serological Identification: The protein was electrophoresed under reducing condition on a 15 % SDS-polyacrylamide gel, transferred by electroblotting to a NC membrane and visualized by immune-detection with specific antibody TGF-beta2.
Characteristics:	Recombinant human TGF beta 2 contains a 6-His tag at the N-terminal end, is produced by transient expression in non-transgenic plants. This product contains no animal-derived components or impurities. Animal free product. Serological Identification: The protein was electrophoresed under reducing condition on a 15 % SDS-polyacrylamide gel, transferred by electroblotting to a NC membrane and visualized by immune-detection with specific antibody TGF-beta2. Molecular Formula: C602H909N167O171S10 Isoelectric Point: 7,72

Product Details

	Extinction Coefficient: E 0.1 % (1g/L) = 2.02 (A 280 nm) This product contains no animal-derived components or impurities. It is produced by transient expression of TGF-beta3 in non-transgenic plants.
Purification:	Recombinant human TGF-beta3 contains a 6-His-tag at the N-terminal end and is purified by sequential chromatography (FPLC).
Purity:	> 97 % by SDS-PAGE gel
Endotoxin Level:	< 0.04 EU/µg protein (LAL method)

Target Details

Target:	TGFB2
Alternative Name:	TGF beta 2 (TGFB2 Products)
Background:	Synonyms: Transforming growth factor beta-2, TGF-beta-2 Recombinant human TGF-beta2 is a 27.08 kDa protein composed of two identical 118 amino acid peptide chains linked by a single disulphide bond. Transforming growth factor-beta is a family of five related cytokines that have been shown on a wide variety of normal and neoplastic cells, indicating the importance of these homo-dimmer proteins as multi-functional regulators of cellular activity. The three mammalian isoforms of TGF-beta (TGF-beta1, TGF-beta2 and TGF-beta3) signal through the same receptor and elicit similar biological responses. They are involved in physiological processes as embryogenesis, tissue remodelling and wound healing.
Molecular Weight:	27.08 kDa
Gene ID:	7042, 190220
UniProt:	P61812
Pathways:	Cell-Cell Junction Organization, Production of Molecular Mediator of Immune Response, Protein targeting to Nucleus

Application Details

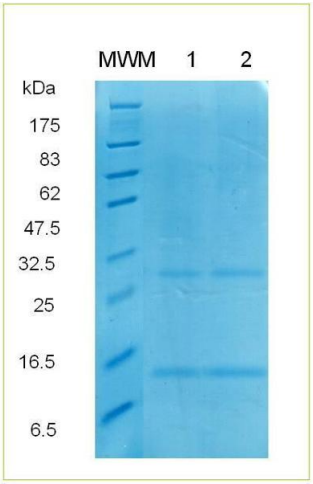
Comment:	Human recombinant protein expressed in Nicotiana benthamiana.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Lyophilized protein should be reconstituted in water to a concentration of 25-50 ng /µL. Due to the protein nature, dimmers and multimers may be observed. Upon reconstitution, It can be stored in working aliquots at -20 °C for future use.
Concentration:	50 ng/µL
Buffer:	Tris HCl 0.05 M buffer at pH 7.4.
Handling Advice:	Reconstituted protein should be stored in working aliquots at -20 °C and it is recommended to add a carrier protein (0.1 % HSA or BSA). Repeated freezing and thawing is not recommended.
Storage:	4 °C

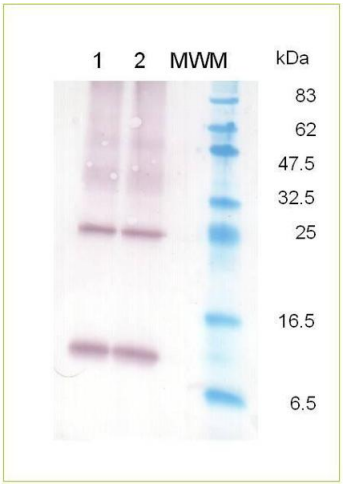
Publications

Product cited in:	Zou, Sun: "An improved recombinant mammalian cell expression system for human transforming growth factor-beta2 and -beta3 preparations." in: **Protein expression and purification**, Vol. 50, Issue 1, pp. 9-17, (2006) (PubMed). Massagué: "The transforming growth factor-beta family." in: **Annual review of cell biology**, Vol. 6, pp. 597-641, (1991) (PubMed). Miller, Pelton, Derynck, Moses: "Transforming growth factor-beta. A family of growth regulatory peptides." in: **Annals of the New York Academy of Sciences**, Vol. 593, pp. 208-17, (1990) (PubMed). ten Dijke, Hansen, Iwata, Pieler, Foulkes: "Identification of another member of the transforming growth factor type beta gene family." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 85, Issue 13, pp. 4715-9, (1988) (PubMed).



SDS-PAGE

Image 1. SDS-PAGE analysis of recombinant TGF-β2. Samples were loaded in 15 % SDS-polyacrylamide gel and stained with Coomassie blue. MWM: Molecular weight marker (kDa), lane 1-2 contain 0.2 µg of recombinant TGF-β2. (reducing condition, approx. 13 kDa monomer and approx. 26 kDa homodimers)



Western Blotting

Image 2. Western Blot analysis of recombinant TGF-β2. Lane 1-2: 0.2 µg of TGF-β2, MWM: Molecular weight marker (kDa).

