Datasheet: PHP143B

Description:	RECOMBINANT HUMAN TGF BETA 1
Name:	TGF BETA 1
Other names:	TRANSFORMING GROWTH FACTOR BETA
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA			▪	
Functional Assays	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species

Human

Product Form

Purified recombinant protein - lyophilised

Reconstitution

Reconstitute with 100ul distilled water. Further dilutions should be made in buffer containing a carrier protein such as 0.1% BSA.
Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. DO NOT VORTEX.

Preparation

Recombinant protein prepared from CHO cells.

Preservative Stabilisers

None present

Endotoxin Level

<0.1ng/ug

Approx. Protein Concentrations

0.1 mg/ml after reconstitution

External Database Links

UniProt:

P01137 Related reagents

Entrez Gene:

7040 TGFB1 Related reagents

Synonyms	TGFB
Product Information	Transforming growth factor beta-1 (TGF beta 1) is a homodimeric protein that regulates the proliferation and differentiation of normal and transformed cells. TGF beta 1 is the most abundant isoform which is secreted by most cell types.
Protein Molecular Weight	25.0 kDa (2x identical 112 amino acid polypeptide chains)
Activity	The ED50, determined by the ability of TGF beta 1 to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is ≤0.05 ng/ml, corresponding to a specific activity of ≥2 x 10^7 units/mg
Purity	>98% by SDS PAGE and HPLC analysis
References	1. Brittain, J. *et al*. (2001) Activation of sickle red blood cell adhesion via integrin associated protein/CD47 - induced signal transduction. J. Clin. Invest. 107: 1555 - 1562. 2. Chaudhary, N.I. *et al.* (2007) Inhibition of PDGF, VEGF and FGF signalling attenuates fibrosis. Eur Respir J. 29: 976-85. 3. Ferret-Bernard, S. *et al.* (2011) Mesenteric lymph node cells from neonates present a prominent IL-12 response to CpG oligodeoxynucleotide via an IL-15 feedback loop of amplification. Vet Res. 42:19. 4. Sándor K *et al.* (2016) Transcriptional control of transglutaminase 2 expression in mouse apoptotic thymocytes. Biochim Biophys Acta. Jun 1. pii: S1874-9399(16)30121-3. [Epub ahead of print]
Storage	Prior to reconstitution store at -20°C. Following reconstitution store at -20°C. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	3 months from date of reconstitution. Please see label for expiry date.
Health And Safety Information	Material Safety Datasheet documentation #10527 available at: 10527: https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf
Regulatory	For research purposes only

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