

## Datasheet: PHP143B

**BATCH NUMBER 159542**

<b>Description:</b>	RECOMBINANT HUMAN TGF BETA 1
<b>Name:</b>	TGF BETA 1
<b>Other names:</b>	TRANSFORMING GROWTH FACTOR BETA
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified recombinant protein - lyophilised
<b>Reconstitution</b>	<p>Reconstitute with 100ul distilled water. Further dilutions should be made in buffer containing a carrier protein such as 0.1% BSA.</p> <p>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.</p>
<b>Preparation</b>	Recombinant protein prepared from CHO cells.
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	< 0.1 ng/ug

<b>Approx. Protein Concentrations</b>	0.1 mg/ml after reconstitution
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01137</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7040</a>    TGFB1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	TGFB
<b>Product Information</b>	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.
<b>Protein Molecular Weight</b>	25.0 kDa (2x identical 112 amino acid polypeptide chains)
<b>Activity</b>	The ED50, determined by the ability of TGF beta 1 to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is $\leq 0.05$ ng/ml, corresponding to a specific activity of $\geq 2 \times 10^7$ units/mg
<b>Purity</b>	>98% by SDS PAGE and HPLC analysis
<b>References</b>	<ol style="list-style-type: none"> <li>1. Brittain, J. <i>et al.</i> (2001) Activation of sickle red blood cell adhesion via integrin associated protein/CD47 - induced signal transduction. <a href="#">J. Clin. Invest. 107: 1555 - 1562.</a></li> <li>2. Chaudhary, N.I. <i>et al.</i> (2007) Inhibition of PDGF, VEGF and FGF signalling attenuates fibrosis. <a href="#">Eur Respir J. 29: 976-85.</a></li> <li>3. Ferret-Bernard, S. <i>et al.</i> (2011) Mesenteric lymph node cells from neonates present a prominent IL-12 response to CpG oligodeoxynucleotide via an IL-15 feedback loop of amplification. <a href="#">Vet Res. 42:19.</a></li> <li>4. Sándor K <i>et al.</i> (2016) Transcriptional control of transglutaminase 2 expression in mouse apoptotic thymocytes. <a href="#">Biochim Biophys Acta. Jun 1. pii: S1874-9399(16)30121-3. [Epub ahead of print]</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
<b>Guarantee</b>	Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10527 available at:

<https://www.bio-rad-antibodies.com/SDS/PHP143B>

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**Regulatory**

For research purposes only

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