

Datasheet: PHP174 BATCH NUMBER 165611

Description:	RECOMBINANT HUMAN CTGF
Name:	CTGF
Other names:	CONNECTIVE TISSUE GROWTH FACTOR
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	20 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 <u>www.bio-rad-antibodies.com/protocols</u> .							
		Yes	No	Not Determined	Suggested Dilution			
	ELISA	-			0.2 - 0.4ng/well			
	Western Blotting				1.5 - 3.0ng/lane			
	Functional Assays	•			1.0 - 2.0ug/ml			
	Where this product has	not been t	ested for ι	use in a particular tech	nique 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 product for use in their own							
	system using appropriate negative/positive controls.							
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Target Species	Human							
Product Form	Purified recombinant protein - lyophilized							
Reconstitution	Reconstitute with 0.2 ml distilled water. 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.							
Preparation	Purified recombinant CTGF expressed in <i>E.coli</i>							
Source	E.coli							
Buffer Solution	10mM Sodium Acetate							
Preservative Stabilisers	None present							

Carrier Free	Yes				
Endotoxin Level	< 1.0 EU/ug				
Approx. Protein Concentrations	Total protein concentration 0.1 mg/ml after reconstitution				
External Database Links	UniProt: <u>P29279</u> <u>Related reagents</u> Entrez Gene:				
	1490 CTGF Related reagents				
Synonyms	CCN2, HCS24, IGFBP8				
Product Information	CTGF (connective tissue growth factor) is a heparin-binding pleiotropic growth factor and member of the CCN family of secreted cysteine rich regulatory proteins, which interacts with other growth factors including transforming growth factor beta (TGF-beta), vascular endothelial growth factor (VEGF) and bone morphogenetic proteins (BMPs). CTGF promotes the adhesion of epithelial cells and fibroblasts, stimulates integrin expression, and promotes endothelial cell survival, migration and adhesion, implicating CTGF in angiogenesis. CTGF is involved in chondrogenesis and potentially skeletogenesis, induces extracellular matrix formation and has also been implicated in				
	wound healing.				
Protein Molecular Weight	11.2 kDa (98 amino acid residues)				
Activity	Determined by the dose-dependent stimulation of the proliferation of HUVEC cells. The expected ED_{50} for this effect is 1.0-2.0 µg/ml.				
Purity	>95% by SDS PAGE/HPLC analysis				
ELISA	PHP174 may be used as a standard in a sandwich ELISA with <u>AHP1278</u> as a capture reagent and <u>AHP1278B</u> as the detection reagent.				
Western Blotting	PHP174 may be used as a positive control for western blotting for either <u>AHP1278</u> or <u>AHP1278B</u> .				
References	1. Waddell, J.M. <i>et al.</i> (2011) CTGF expression is up-regulated by PROK1 in early pregnancy and influences HTR-8/Svneo cell adhesion and network formation. <u>Hum</u> <u>Reprod. 26 (1): 67-75.</u>				
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should				

		this product conta	fugation before use.					
Guarante	96	3 months from da	te of reconstitution					
Health A Informat	nd Safety ion	ıt:						
Regulato	iry							
North & South Tel: +1 800 265 7376 America Fax: +1 919 878 3751 Email: antibody_sales_u			ride Tel: +44 (0)1865 852 70 Fax: +44 (0)1865 852 7 Email: antibody_sales_u	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com				
To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M415774:230113'								
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