Datasheet: AHP1278B

Description:	RABBIT ANTI HUMAN CTGF:Biotin
Specificity:	CTGF
Other names:	CONNECTIVE TISSUE GROWTH FACTOR
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			
ELISA	▪			0.25 - 1.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG conjugated to Biotin - lyophilised
Reconstitution	Reconstitute with 0.5ml sterile PBS containing 0.1% Bovine Serum Albumin. 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. For long term storage the addition of 0.09% sodium azide is recommended.
Antiserum Preparation	Antisera to human CTGF were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 0.1mg/ml after reconstitution

Immunogen	Recombinant human CTGF.
External Database Links	**UniProt:** P29279 Related reagents **Entrez Gene:** 1490 CTGF Related reagents
Synonyms	CCN2, HCS24, IGFBP8
Specificity	**Rabbit anti Human CTGF antibody** recognizes human CTGF (connective tissue growth factor), a 323 amino acid ~38 kDa polypeptide member of the CCN family of secreted cysteine rich regulatory proteins. CTGF is produced by vascular endothelial and umbilical vein cells, and interacts with several other growth factors, including transforming growth factor beta (TGF-beta), vascular endothelial growth factor (VEGF) and bone morphogenetic proteins (BMPs). CTGF is a heparin-binding pleiotropic growth factor involved in chondrogenesis and potentially skeletogenesis. CTGF promotes the adhesion of epithelial cells and fibroblasts, stimulates integrin expression, and also promotes endothelial cell survival, migration and adhesion, implicating CTGF in angiogenesis. CTGF induces extracellular matrix formation, including the deposition of excessive collagen in fibrotic diseases, and has also been implicated in wound healing.
ELISA	This biotinylated human CTGF antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with our purified human CTGF antibody (AHP1278) as the capture reagent and recombinant human CTGF (PHP174) as the standard.
References	1. Waddell, J.M. *et al.* (2011) CTGF expression is up-regulated by PROK1 in early pregnancy and influences HTR-8/Svneo cell adhesion and network formation. Hum Reprod. 26 (1): 67-75. 2. Westermann, D. *et al.* (2009) Gene deletion of the kinin receptor B1 attenuates cardiac inflammation and fibrosis during the development of experimental diabetic cardiomyopathy. Diabetes. 58: 1373-81. 3. Vasilieva, O.V. *et al.* (2016) Connective tissue growth factor (CTGF) in the human dermis through ontogenesis. Russian Journal of Developmental Biology. 47 (2): 63-68.
Further Reading	1. Moussad, E.E. & Brigstock, D.R. (2000) Connective tissue growth factor: what's in a name? Mol Genet Metab. 71 (1-2): 276-92.
Storage	Prior to reconstitution store at +4ºC. After reconstitution store at -20ºC. 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 contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

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