Datasheet: AHP1278

BATCH NUMBER 171767

Description:	RABBIT ANTI HUMAN CTGF
Specificity:	CTGF
Other names:	CONNECTIVE TISSUE GROWTH FACTOR
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

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 (1)	▪			
ELISA	▪			0.5 - 2.0ug/ml
Western Blotting	▪			0.1 - 0.2ug/ml
Immunofluorescence	▪			
Functional Assays	▪			6.0 - 9.0ug/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.

(1) **This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

Target Species

Human

Product Form

Purified IgG - lyophilized

Reconstitution

Reconstitute with 0.1ml distilled water. For long term storage the addition of 0.09% sodium azide is recommended. NB: For functional studies do not add azide.

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
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml after reconstitution.
Immunogen	Recombinant human CTGF.
External Database Links	**UniProt:** P29279 Related reagents **Entrez Gene:** 1490 CTGF Related reagents
Synonyms	CCN2, HCS24, IGFBP8
RRID	AB_2087370
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.
References	1. 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. 2. 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. 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. 4. Zarobkiewicz, M.K. *et al.* (2018) Decrease in Lipid Droplets in Adrenal Cortex of Male Wistar Rats after Chronic Exposure to Energy Drinks. Medicina (Kaunas). 54 (5):90.
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	This product is shipped at ambient temperature. Prior to reconstitution store at -20°C. After 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 antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10294 available at: https://www.bio-rad-antibodies.com/SDS/AHP1278
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (STAR35...)	RPE

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)
TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M439017:250523'

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