

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CTRP3/C1qTNF3/CORS26 in direct ELISAs and Western blots. In direct ELISAs, approximately 40% cross-reactivity with recombinant mouse CTRP3/C1qTNF3/CORS26 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CTRP3/C1qTNF3/CORS26 Asp24-Lys246 Accession # Q9BXJ4
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

C1qTNF3 (Complement C1q TNF-related protein 3/CTRP3; also CORS26 and cartonectin) is a 30-32 kDa, secreted member of the C1q and TNF-related protein (CTRP) superfamily of molecules. It is expressed by a wide variety of cells, including smooth muscle cells, fibroblasts, adipocytes, monocytes and proliferating chondrocytes. C1qTNF3 is an anti-inflammatory agent that apparently blocks LPS activation of mononuclear cells. It also has marked proliferative activity on diverse cell types such as vascular smooth muscle, chondrocytes, and endothelium. Finally, C1qTNF3 is known to act on hepatocytes and suppress hepatocyte gluconeogenesis. Mature human C1qTNF3 is 224 amino acids (aa) in length (aa 23-246). It possesses an N-terminal collagen-like domain (aa 51-113) followed by a C-terminal globular region (aa 113-246). C1qTNF3 is monomeric when intracellular, but forms a 90 kDa homotrimer plus higher-order oligomer when secreted. There are at least two potential isoform variants. One is 40-42 kDa, glycosylated, and contains a 73 aa insertion after Glu28, while a second shows concurrent deletions of aa 46-69 and 82-105. The longer 40 kDa isoform is reported to form heterotrimers and oligomers with the standard 30 kDa isoform. This has the effect of protecting the standard isoform from proteolysis. Over aa 24-246, human C1qTNF3 shares 99% aa sequence identity with mouse C1qTNF3.

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