10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CTRP2 Antibody
Catalog # ASC10334

Specification

CTRP2 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q9BXJ5
Other Accession	NP_114114, 94818738
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**CTRP2 polyclonal antibody can be used for the detection of CTRP2 by Western blot at 1 - 4 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL.**

CTRP2 Antibody - Additional Information

Gene ID **114898**

Other Names
CTRP2 Antibody: CTRP2, zacrp2, CTRP2, UNQ6349/PRO21054, Complement C1q tumor necrosis factor-related protein 2, C1q and tumor necrosis factor related protein 2

Target/Specificity
C1QTNF2; These proteins are often highly modified post-translationally and migrate in SDS-PAGE at positions other than their predicted size.

Reconstitution & Storage
CTRP2 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
CTRP2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CTRP2 Antibody - Protein Information

Name C1QTNF2

Synonyms CTRP2

Function
Involved in the regulation of lipid metabolism in adipose tissue and liver.

Cellular Location
Secreted.

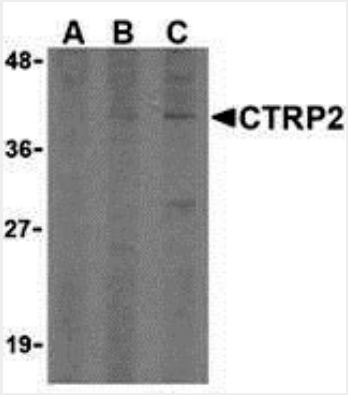
Tissue Location
Expressed in adipose tissue.

CTRP2 Antibody - Protocols

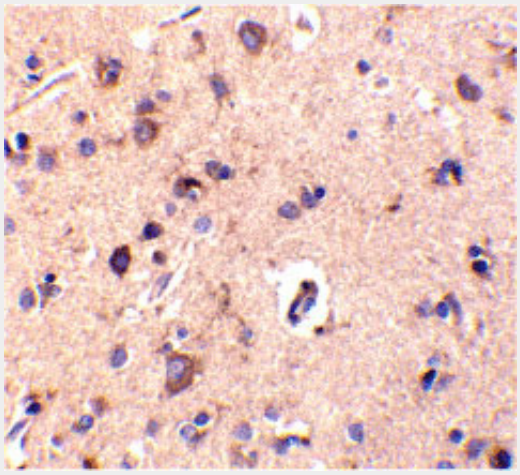
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CTRP2 Antibody - Images



Western blot analysis of CTRP2 in 3T3 (Balb) cell lysate with CTRP2 (IN) antibody at (A) 1, (B) 2, and (C) 4 µg/mL.



Immunohistochemical staining of human brain tissue using CTRP2 antibody at 10 µg/mL.

CTRP2 Antibody - Background

CTRP2 Antibody: Adipose tissue of an organism plays a major role in regulating physiologic and pathologic processes such as metabolism and immunity by producing and secreting a variety of

bioactive molecules termed adipokines. One highly conserved family of adipokines is adiponectin/ACRP30 and its structural and functional paralogs, the C1q/tumor necrosis factor-alpha-related proteins (CTRPs) 1-7. Unlike adiponectin, which is expressed exclusively by differentiated adipocytes, the CTRPs are expressed in a wide variety of tissues. These proteins are thought to act mainly on liver and muscle tissue to control glucose and lipid metabolism. An analysis of the crystal structure of adiponectin revealed a structural and evolutionary link between TNF and C1q-containing proteins, suggesting that these proteins arose from a common ancestral innate immunity gene. Of the CTRPs, CTRP2 is most similar structurally and functionally to adiponectin. Recombinant CTRP2 rapidly activated AMPK and MAPK in cultured C2C12 cells, leading to increased glycogen accumulation and fatty acid oxidation.

CTRP2 Antibody - References

Fantuzzi G. Adipose tissue, adipokines, and inflammation. J. Allergy Clin. Immunol. 2005; 115:911-9.

Tsao T-S, Lodish HF, and Fruebis J. ACRP30, a new hormone controlling fat and glucose metabolism. Euro. J. Pharmacol. 2002; 440:213-21.
Wong GW, Wang J, Hug C, et al. A family of Acrp30/ adiponectin structural and functional paralogs. Proc. Natl. Acad. Sci. USA 2004; 101:10302-7.
Shapiro L and Scherer PE. The crystal structure of a complement-1q family protein suggests an evolutionary link to tumor necrosis factor. Curr. Biol. 1998; 8:335-8.