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CTRP1 Antibody
Catalog # ASC10333

Specification

CTRP1 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q9BXJ1
Other Accession	NP_940995, 38372917
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**CTRP1 antibody can be used for the detection of CTRP1 by Western blot at 1 and 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL. For immunofluorescence start at 20 µg/mL.**

CTRP1 Antibody - Additional Information

Gene ID **114897**

Other Names
CTRP1 Antibody: GIP, CTRP1, ZSIG37, UNQ310/PRO353, Complement C1q tumor necrosis factor-related protein 1, G protein-coupled receptor-interacting protein, GIP, C1q and tumor necrosis factor related protein 1

Target/Specificity
C1QTNF1; These proteins are often highly modified post-translationally and migrate in SDS-PAGE at positions other than their predicted size.

Reconstitution & Storage
CTRP1 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
CTRP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CTRP1 Antibody - Protein Information

Name C1QTNF1

Synonyms CTRP1

Cellular Location
Secreted.

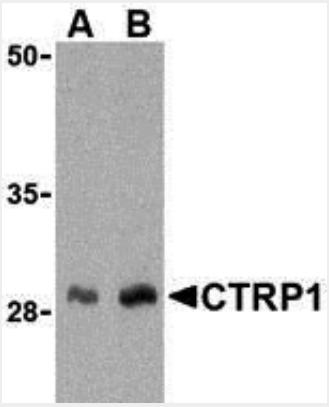
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CTRP1 Antibody - Protocols

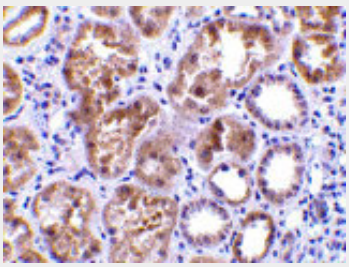
Provided below are standard protocols that you may find useful for product applications.

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

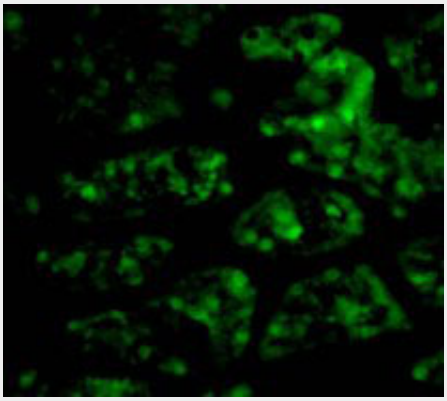
CTRP1 Antibody - Images



Western blot analysis of CTRP1 in human kidney cell lysate with CTRP1 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of CTRP1 in human kidney tissue with CTRP1 antibody at 10 µg/mL.



Immunofluorescence of CTRP1 in Human Kidney cells with CTRP1 antibody at 20 µg/mL.

CTRP1 Antibody - Background

CTRP1 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. In obese (ob/ob) mice, RT-PCR analysis showed that mCTRP1 transcripts are seen at substantially higher levels in adipose tissues compared to those of normal mice.

CTRP1 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.