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CTRP7 Antibody
Catalog # ASC10343

Specification

CTRP7 Antibody - Product Information

Application	**WB, ICC, IF**
Primary Accession	Q8BVD7
Other Accession	AAY21932, 62913965
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**antibody can be used for the detection of CTRP7 by Western blot at 0.5 to 2 µg/mL. Antibody can also be used for immunocytochemistry starting at 0.5 µg/mL. For immunofluorescence start at 2 µg/mL.**

CTRP7 Antibody - Additional Information

Gene ID **109323**

Other Names
CTRP7 Antibody: Ctrp7, 5530401N20Rik, 8430425G24Rik, Ctrp7, Complement C1q tumor necrosis factor-related protein 7, C1q and tumor necrosis factor related protein 7

Target/Specificity
C1qtnf7; These proteins are often highly modified post-translationally and migrate in SDS-PAGE at positions other than their predicted size.

Reconstitution & Storage
CTRP7 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
CTRP7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CTRP7 Antibody - Protein Information

Name C1qtnf7

Synonyms Ctrp7

Cellular Location
Secreted.

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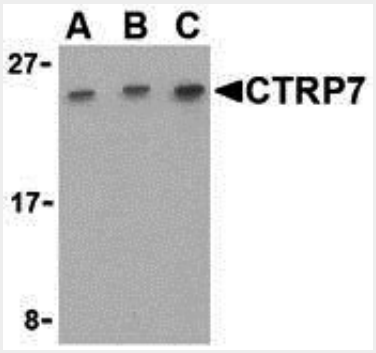
CTRP7 Antibody - Protocols

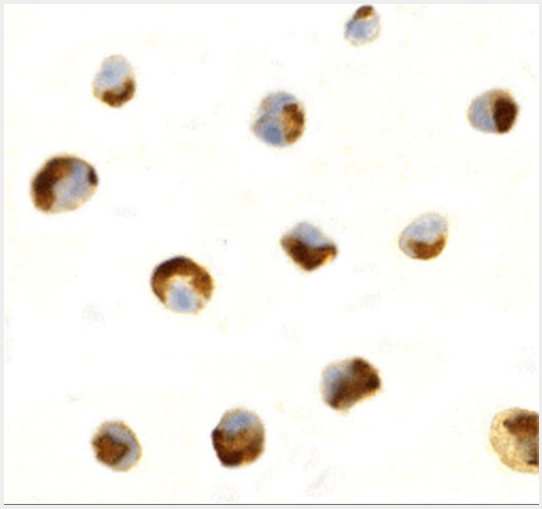
Provided below are standard protocols that you may find useful for product applications.

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

CTRP7 Antibody - Images



Western blot analysis of CTRP7 in 293 cell lysate with CTRP7 antibody at (A) 0.5, (B) 1, and (C) 2 µg/mL.



Immunocytochemistry of CTRP7 in HL60 cells with CTRP7 antibody at 0.5 µg/mL.

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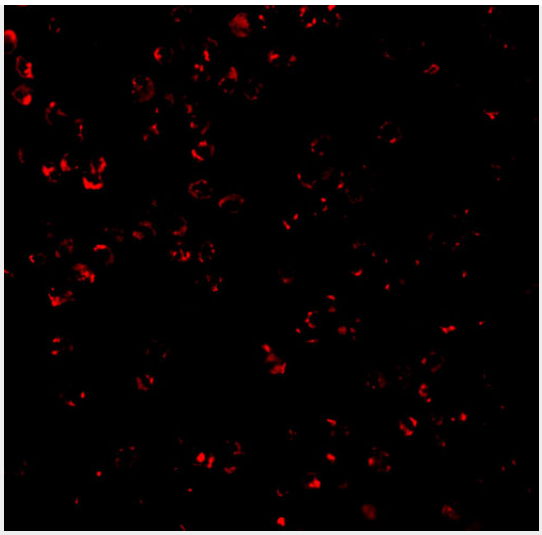

Immunofluorescence of CTRP7 in HL60 with CTRP7 antibody at 2 µg/mL.

CTRP7 Antibody - Background

CTRP7 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. Like the other members of the adiponectin and CTRP protein family, the mature CTRP7 is secreted and can be found in the organism's circulatory system.

CTRP7 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.