

CTRP7 Antibody

Catalog # ASC10343

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q8BVD7
Other Accession	AA21932 , 62913965
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	30517
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	antibody can be used for the detection of CTRP7 by Western blot at 0.5 to 2 μ g/mL. Antibody can also be used for immunocytochemistry starting at 0.5 μ g/mL. For immunofluorescence start at 2 μ g/mL.

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°C for three months and -20°C, 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.

Protein Information

Name	C1qtnf7
Synonyms	Ctrp7
Cellular Location	Secreted.

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- α -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.

References

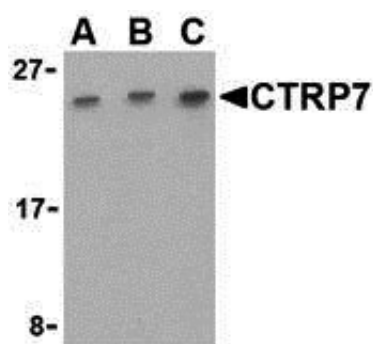
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Tsao T-S, Lodish HF, and Fruebis J. ACRP30, a new hormone controlling fat and glucose metabolism. *Euro. J. Pharmacol.* 2002; 440:213-21.

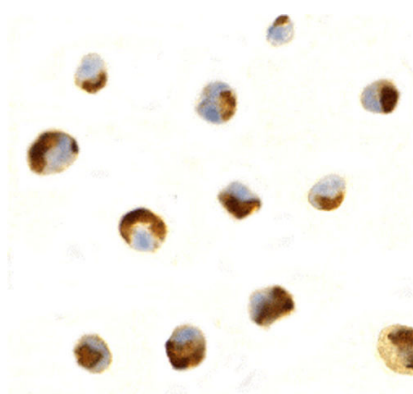
Wong GW, Wang J, Hug C, et al. A family of ACRP30/ adiponectin structural and functional paralogs. *Proc. Natl. Acad. Sci. USA* 2004; 101:10302-7.

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.

Images

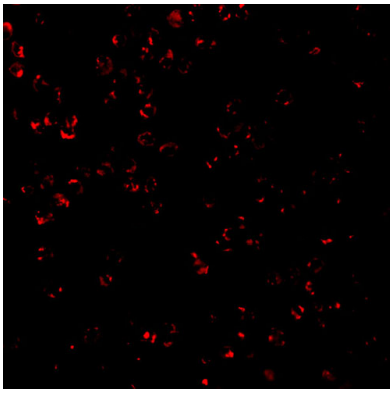


Western blot analysis of CTRP7 in 293 cell lysate with CTRP7 antibody at (A) 0.5, (B) 1, and (C) 2 $\mu\text{g/mL}$.



Immunocytochemistry of CTRP7 in HL60 cells with CTRP7 antibody at 0.5 $\mu\text{g/mL}$.

Immunofluorescence of CTRP7 in HL60 with CTRP7 antibody at 2 $\mu\text{g/mL}$.



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