

CTRP1 Antibody

Catalog # ASC10333

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q9BXJ1
Other Accession	NP_940995 , 38372917
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	31743
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CTRP1 antibody can be used for the detection of CTRP1 by Western blot at 1 and 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 10 μ g/mL. For immunofluorescence start at 20 μ g/mL.

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°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	CTRP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	C1QTNF1
Synonyms	CTRP1
Cellular Location	Secreted.

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- 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. 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.

References

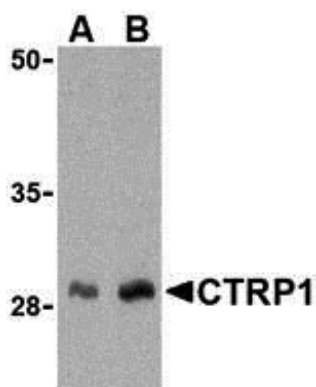
Fantuzzi G. Adipose tissue, adipokines, and inflammation. *J. Allergy Clin. Immunol.* 2005; 115:911-9.

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

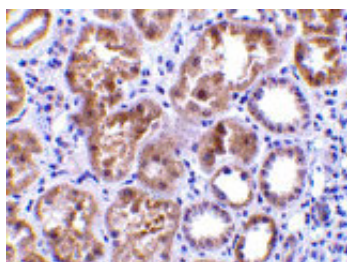
Wong GW, Wang J, Hug C, et al. A family of Acrp30/ adiponectin structural and functional paralogs. *Proc. Natl. Acad. Sci. USA* 2004; 101:10302-7.

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.

Images

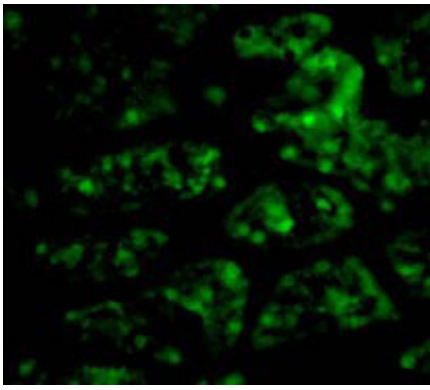


Western blot analysis of CTRP1 in human kidney cell lysate with CTRP1 antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.



Immunohistochemistry of CTRP1 in human kidney tissue with CTRP1 antibody at 10 $\mu\text{g/mL}$.

Immunofluorescence of CTRP1 in Human Kidney cells with CTRP1 antibody at 20 $\mu\text{g/mL}$.



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