



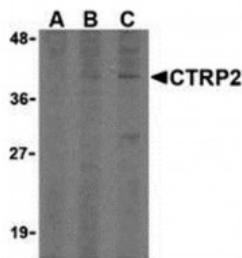
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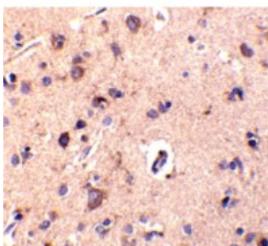
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CTRP2 Antibody

CATALOG NUMBER: 3559



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



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

Specifications

SPECIES REACTIVITY:	Human, Mouse
TESTED APPLICATIONS:	ELISA, IHC-P, WB
APPLICATIONS:	CTRP2 polyclonal antibody can be used for the detection of CTRP2 by Western blot at 1 - 4 ug/mL. Antibody can also be used for immunohistochemistry starting at 10 ug/mL. Antibody validated: Western Blot in mouse samples and Immunohistochemistry in human samples. All other applications and species not yet tested.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1212 - 3T3 Cell Lysate 2) Cat. No. 1303 - Human Brain Tissue Lysate 3) Cat. No. 10-301 - Human Brain Tissue Slide
SPECIFICITY:	These proteins are often highly modified post-translationally and migrate in SDS-PAGE at positions other than their predicted size.
IMMUNOGEN:	Rabbit CTRP2 polyclonal antibody was raised against a 16 amino acid synthetic peptide from near the center of human CTRP2. The immunogen is located within amino acids 140 - 190 of CTRP2.
HOST SPECIES:	Rabbit
Properties	
PURIFICATION:	CTRP2 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	CTRP2 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	CTRP2 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.

CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	CTRP2 Antibody: CTRP2, zacrp2, CTRP2, UNQ6349/PRO21054, Complement C1q tumor necrosis factor-related protein 2
ACCESSION NO.:	NP_114114
PROTEIN GI NO.:	94818738
OFFICIAL SYMBOL:	C1QTNF2
GENE ID:	114898

Background

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.

REFERENCES:

- 1) Fantuzzi G. Adipose tissue, adipokines, and inflammation. *J. Allergy Clin. Immunol.* 2005; 115:911-9.
- 2) Tsao T-S, Lodish HF, and Fruebis J. ACRP30, a new hormone controlling fat and glucose metabolism. *Euro. J. Pharmacol.* 2002; 440:213-21.
- 3) 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.
- 4) 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.

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March 31, 2018