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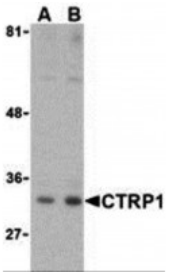
ProSci Incorporated
12170 Flint Place
Poway, CA 92064

**Toll Free:** +1 (888) 513 9525
**Local:** +1 (858) 513 2638
**Fax:** +1 (858) 513 2692

techsupport@prosci-inc.com

# CTRP1 Antibody

CATALOG NUMBER: 3555




Western blot analysis of CTRP1 in MDA-MD-361 cell lysate with CTRP1 (IN) antibody at (A) 1 and (B) 2 ug/mL.

## Specifications

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| **SPECIES REACTIVITY:** | Human, Mouse |
| **HOMOLOGY:** | Predicted species reactivity based on immunogen sequence: Rat: (100%) |
| **TESTED APPLICATIONS:** | ELISA, WB |
| **APPLICATIONS:** | CTRP1 antibody can be used for the detection of CTRP1 by Western blot at 1 and 2 ug/mL. |
| **USER NOTE:** | Optimal dilutions for each application to be determined by the researcher. |
| **POSITIVE CONTROL:** | 1) Cat. No. 1217 - MDA-MB-361 Cell Lysate |
| **SPECIFICITY:** | These proteins are often highly modified post-translationally and migrate in SDS-PAGE at positions other than their predicted size. |
| **IMMUNOGEN:** | CTRP1 (IN) antibody was raised against a 16 amino acid synthetic peptide from near the center of human CTRP1.<br><br>The immunogen is located within amino acids 80 - 130 of CTRP1. |
| **HOST SPECIES:** | Rabbit |

## Properties

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| **PURIFICATION:** | CTRP1 Antibody is affinity chromatography purified via peptide column. |
| **PHYSICAL STATE:** | Liquid |
| **BUFFER:** | CTRP1 Antibody is supplied in PBS containing 0.02% sodium azide. |
| **CONCENTRATION:** | 1 mg/mL |
| **STORAGE CONDITIONS:** | 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. |
| **CLONALITY:** | Polyclonal |
| **ISOTYPE:** | IgG |
| **CONJUGATE:** | Unconjugated |

## Additional Info

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| **ALTERNATE NAMES:** | CTRP1 Antibody: GIP, CTRP1, ZSIG37, UNQ310/PRO353, Complement C1q tumor necrosis factor-related protein 1, G protein-coupled receptor-interacting protein, GIP |
| **ACCESSION NO.:** | NP_940995 |
| **PROTEIN GI NO.:** | 38372917 |
| **OFFICIAL SYMBOL:** | C1QTNF1 |
| **GENE ID:** | 114897 |

## Background

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| **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. |
| **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. |

**FOR RESEARCH USE ONLY**

December 12, 2016