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Adipokines: Adiponectin and CTRPs 1-7 Detection Set

Cat. No.: PSI-1804

Adipokines: Adiponectin and CTRPs 1-7 Detection Set

Specifications

SPECIES REACTIVITY:	Human
IMMUNOGEN:	Rabbit polyclonal antibodies were raised against peptides corresponding to amino acid sequences from each of the corresponding proteins.
TESTED APPLICATIONS:	IF, IHC, WB
APPLICATIONS:	These polyclonal antibodies can be used for detection of the indicated adipokines by Western blot at 1 µg/mL to 2 µg/mL , Immunohistochemistry, and Immunoflourescence.
POSITIVE CONTROL:	1) 293 Lysate (for Adiponectin and CTRP7), Cat. No. 1210 Human Kidney Lysate (for CTRP1), Cat. No. 1305 Caco-2 Lysate (for CTRP2), Cat. No. 1223 Mouse Heart Lysate (for CTRP3), Cat. No. 1401 Rat Brain Lysate (for CTRP4), Cat. No. 1463 Human Brain Lysate (for CTRP5), Cat. No. 1303 HeLa Lysate (for CTRP6), Cat. No. 1201

Properties

PURIFICATION:	Antibodies are supplied as affinity chromatography purified IgG.
PHYSICAL STATE:	Liquid
BUFFER:	PBS containing 0.02% sodium azide.
CONCENTRATION:	Antibody 1 mg/mL
STORAGE CONDITIONS:	Stable at 4˚C for three months, store at -20˚C for up to one year.

Additional Info

USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

BACKGROUND:	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-A-related proteins (CTRPs) 1-7. Unlike the CTRPs, which are expressed in a wide variety of tissues, adiponectin is reported to be expressed exclusively by differentiated adipocytes. These proteins are thought to act mainly on liver and muscle tissue to control glucose and lipid metabolism. Adiponectin is present in high levels in normal human plasma, but is reduced in obese subjects and often in those with increased insulin resistance and type 2 diabetes, suggesting that adiponectin may be a useful pharmacological target in various metabolic diseases. 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. **For images please see PDF data sheet**
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) Lihn AS, Pedersen SB, and Richelsen B. Adiponectin: action, regulation and association to insulin sensitivity. Obes. Rev. 2005; 6:13-21.