

## OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-858-888-7900 Fax: +1-858-888-7904 <u>US-info@acris-antibodies.com</u>

## PA1120XC OriGene EU

Acris Antibodies GmbH Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

## Recombinant Rat Leptin Antagonist Triple Mutant (Leptin Rat) - Purified

Catalog No.:	PA1120XC
Quantity:	1 mg
Species:	Rat
Source:	E. coli, <i>Escherichia coli</i>
Format:	<ul> <li>State: Lyophilized (sterile filtered) white freeze-dried powder.</li> <li>Purity: &gt;99% pure as determined by:</li> <li>(a) Gel filtration analysis.</li> <li>(b) Analysis by SDS-PAGE.</li> <li>Buffer System: The protein was lyophilized from a concentrated (0.85 mg/ml) solution with 0.003mM NaHCO3.</li> <li>Endotoxin Level: &lt; 0.1 ng/µg (IEU/µg).</li> <li>Reconstitution: Restore in sterile water or sterile 0.4% NaHCO3 adjusted to pH 8-9, not less than 100 µg/ml, which can then be further diluted with other aqueous solutions.</li> </ul>
Description:	Recombinant Rat Leptin Antagonist Triple Mutant is a singly non-glycosilated polypeptide chain containing 146 amino and additional Ala at N-terminus acids. Leptin was mutated, resulting in L39A/D40A/F41A mutant. The product was purified by proprietary chromatographic techniques. <b>AA Sequence:</b> The sequence of the first five N-terminal was determined as Ala-Val-Pro-Ile- Gln. <b>Biological Activity:</b> Recombinant Rat Leptin Antagonist Triple Mutant is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. It also inhibits various leptin effects in several i>in vitro bioassays. <b>Molecular weight:</b> 16 kDa
Add. Information:	<b>Protein Content:</b> Protein quantization was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.21 as the extinction coefficient for a 0.1% (1 mg/ml) solution at pH 8.0. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).



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Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com

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Storage:	Store the lyophilized Leptin Antagonist Triple Mutant at RT for up to six weeks or desiccated below -20°C for longer. Please avoid repeated freezing and thawing. Shelf life: one year from despatch Following reconstitution at > 0.1 mg/ml and filter sterilization the protein can be stored at 2-8°C or even room temperature for several weeks, making it suitable for long-term infusion studies using osmotic pumps. At lower concentration addition of a carrier protein (0.1% HSA or BSA) is suggested.
General Readings:	<ol> <li>Yingzhong Y, Droma Y, Rili G, Kubo K. Regulation of body weight by leptin, with special reference to hypoxia-induced regulation. Intern Med. 2006;45(16):941-6. Epub 2006 Sep 15. PubMed PMID: 16974055.</li> <li>Expression of endothelin-1 and adrenomedullin was not altered by leptin or resistin in bovine brain microvascular endothelial cells. Hypertens Res 2006 Jun;29(6):443-8</li> <li>Brennan AM, Mantzoros CS. Drug Insight: the role of leptin in human physiology and pathophysiologyemerging clinical applications. Nat Clin Pract Endocrinol Metab. 2006 Jun;2(6):318-27. PubMed PMID: 16932309.</li> <li>Leptin, estrogens and cancer. Mini Rev Med Chem 2006 Aug;6(8):897-907</li> <li>Atabek ME, Kurtoglu S, Pirgon O. Possible effect of leptin on renal magnesium excretion in adolescent patients with type 1 diabetes. Pediatr Int. 2006 Aug;48(4):393-7. PubMed PMID: 16911085.</li> <li>Sorace M, Tripodi L, Tripodi A, Groppetti D, Cremonesi F. Leptin: pharmacological appress in graecology (Jin Exp Obstet Gynecol. 2006:33(2):113-6. PubMed PMID:</li> </ol>

aspects in gynecology. Clin Exp Obstet Gynecol. 2006;33(2):113-6. PubMed PMID: 16903251.

