

Technical Information

Adiponectin, Rat Total Adiponectin

Cat. No.:	E091R
Tests:	96
Method:	ELISA
Range:	0.25 - 10 ng/ml native Adiponectin
Sensitivity:	~ 0.01 ng/ml
Incubation time:	3 hours
Sample volume:	100 µl (after dilution 1:1'500)
Sample type:	Serum and plasma
Sample preparation:	Samples are stable for maximal 2 days at room temperature. Long-term storage up to 2 years at -20 °C or below. Maximum 5 freeze/thaw cycles.

Species: Rat

Intended use:

Adiponectin is a 30kDa protein and its percentage in serum proteins is 0.01 %. In vivo, it appears with different oligomers and it is mainly synthesized by adipocytes. Until now, IGF-1 is the only known natural inducer of synthesis.

Low Adiponectin levels are closely associated with insulin resistance and metabolic syndrome as well as an increased risk of type 2 diabetes mellitus and cardiovascular disease.

Today, Adiponectin is thought to act as an endogenous insulin sensitizer by decreasing excessive glucose levels without increasing insulin concentrations and by stimulating the burning of adipose tissue in muscle and liver.

Adiponectin is associated with glucose and lipid metabolism and is assumed to have direct antiatherogenic characteristics. Furthermore, it is involved in inflammatory processes.

Clinical significance:

- Obesity
- Arteriosclerosis
- Energy metabolism
- Coronary diseases

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