

Mouse/Rat Adiponectin ELISA-OY

Adiponectin, also referred to as Acrp30, AdipoQ and GBP28 is a protein which is highly expressed in adipose cells. Human adiponectin was identified by Dr. Matsuzawa, Osaka University, whereas mouse adiponectin was identified by Lodish, MIT. It forms trimer, hexamer, and high molecular weight multimers in serum. Adiponectin plays a role in physiological processes such as inflammation, anti diabetes, arteriosclerosis, energy homeostasis, and obesity. Plasma levels of adiponectin are reduced in obese patients, so it is thought as one of new biomarkers.

This kit is based on sandwich ELISA method using anti-mouse adiponectin rabbit polyclonal antibody, and content of adiponectin in mouse and rat sera or cell culture medium is available specifically and accurately.

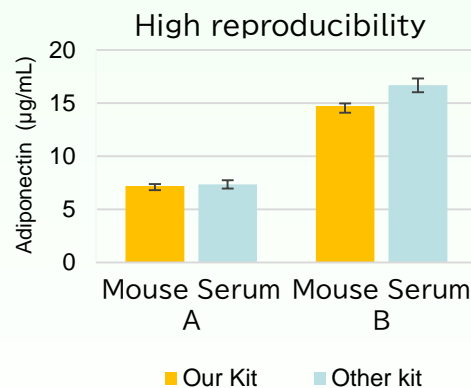
Item	Catalog number	Packing size
Mouse/Rat Adiponectin ELISA-OY	47579900	96 tests

*For research purposes only. Not for therapeutic or diagnostic use.

Specifications

1. High reproducibility
2. Wide calibration range: 0.375 - 24 ng/mL.
3. Applicable to culture medium containing bovine serum

Measuring forms	Trimer, Hexamer, Multimer
Sample form	Serum, Plasma, Culture medium
Pretreatment	None
Total reaction time	4 hours
Immobilized antibody	Rabbit polyclonal IgG
Detection antibody	Biotin-labeled rabbit polyclonal IgG
Standard	Recombinant mouse adiponectin
Calibration range	0.375-24 ng/mL
Dilution rate	6,161-fold (mouse)
	808-fold (rat)
Sample dilution time	Twice
Substrate solution	TMB 2 liquid type (1:1 mixture)
Measurement wavelength	450 nm / 570 nm



Sample	Coefficient variation	
	Mouse Serum A	Mouse Serum B
Our kit	2.2%	1.4%
Other kit	5.3%	3.9%

※Rat adiponectin concentration is calculated as the equivalent of mouse adiponectin concentration.

Support For Metabolic Syndrome Research OYC Research Reagents

Kit Components

No.	Components	Quantity
1	Washing buffer 10X	100 mL×1
2	Sample diluent	100 mL×1
3	Antibody-immobilized plate	8 well×12 modules
4	24 ng/mL mouse adiponectin standard	1.5 mL×1
5	Biotin-labeled antibody solution	12 mL×1
6	Enzyme-labeled streptavidin reaction solution	12 mL×1
7	Substrate solution A	6 mL×1
8	Substrate solution B	6 mL×1
9	Reaction stop solution	12 mL×1

Related Products

Item	Catalog number	Packing size	
Human Adiponectin	47620000	100 µg	
Mouse Adiponectin	47024000	100 µg	
Anti-Human Adiponectin	8A1	47022000	500 µg
	8B3	47021000	500 µg
	-	47023000	500 µg
Anti-Mouse Adiponectin	1F6	47046000	500 µg
	-	47047000	100 µg

References

1. Maeda, K. *et al.* (1996): *Biochem, Biophys. Res. Commun.* 221, 286.
2. Scherer, PE. *et al.* (1995): *J. Biol. Chem.* 270, 26746.
3. Waki, H., (2003): *J. Biol.Chem.* 278, 40352.
4. Ohashi, K. *et al.* (2010): *J. Biol. Chem.* 285, 6153.

Please contact the one that best suits your need.

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