Morinaga BioScience, Inc.

Mouse/Rat Leptin ELISA Kit

Cat. #M1305



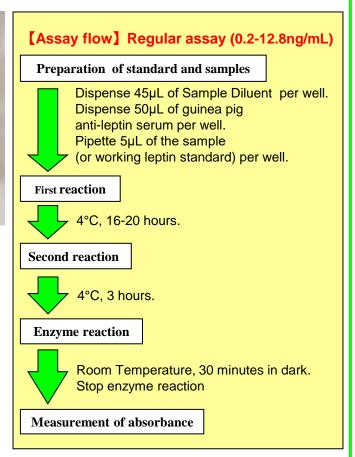
[Intended Use]

The Mouse/Rat Leptin ELISA kit is designed for the quantitative determination of leptin in mouse or rat serum, plasma, and fluid. Please read the complete kit insert before performing this assay. The kit is for *RESEARCH USE ONLY*. It is not intended for use in clinical or diagnostic procedures or for internal or external use in humans or animals.

[Introduction]

Obesity is a significant contributing factor in various adult diseases such as diabetes, cardiac disease, etc. This fact, combined with the increasing prevalence of obesity in the human population, has resulted in increased research on the underlying impact and cause of obesity.

In 1994, leptin, obese gene product, was identified from the investigation of ob/ob mouse. Leptin is a protein of about 16 kDa, which is expressed in adipose tissue, and promotes weight loss by suppressing the appetite and stimulating the metabolism. As a result, the accurate measurement of leptin in experimental animals is becoming increasingly important as obesity research intensifies. The kit is a simple, precise, and sensitive ELISA sandwich assay for mouse and rat leptin.



[Precision]

The intra-assay precision (C.V.) : $\leq 10 \%$ The inter-assay precision (C.V.) : $\leq 10 \%$ The Lot to Lot precision (C.V.) : $\leq 10 \%$

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[Characteristics of Kit]

- Sample size Only 5µL
- Sample Serum, plasma, or fluid

• Test 96 wells (8 wells x 12 modules)

- Reagents In liquid form (except standard)
- Assay range Regular assay : 0.2-12.8 ng/mL Short time assay : 0.4-25.6 ng/mL
- Assay time Regular assay : Over night procedure Short time assay : 4 h 30 min
- Recovery

When mouse or rat leptin was spiked to serum, the recovery of leptin was $100\% \pm 20\%$

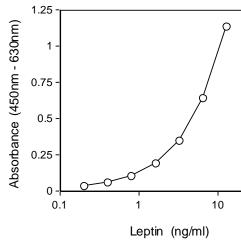
[Specificity]

Reactivity	
100%	
100%*	
40%*	
Not Detected	

*Can vary from lot to lot.

Additional specificity data are available. In need, please contact to Morinaga BioScience, Inc.

[Typical Standard]



[Kit component]

	Name of component	Content	Quantity
A	Antibody-coated Microplate (One pack contains 6x8 well modules)	6 modules / pack	2 packs
B1	Mouse Leptin Standard, Lyophilized	2.56ng	1 vial
B2	Rat Leptin Standard, Lyophilized	2.56ng	1 vial
С	Sample Diluent	50 mL	1 bottle
D	Guinea Pig Anti-Leptin Serum	6 mL	1 bottle
Е	Anti-Guinea Pig IgG Enzyme Conjugate Stock Solution	8.4 mL	1 bottle
F	Enzyme Conjugate Diluent	3.6 mL	1 bottle
G	Enzyme Substrate (TMB) Solution	13 mL	1 bottle
н	Enzyme Reaction Stop Solution (1 N Sulfuric acid)	13 mL	1 bottle
I	Wash Buffer Stock Solution (20X Concentrate)	50 mL	1 bottle
	Frame for affixing the microplate well module		1 piece
	Plastic microplate cover		1 piece

TMB solution* : Avoid exposure to light.

[Other required reagents and instruments]

Micropipettes and disposable tips Volumetric flasks Distilled or deionized water Polypropylene microtubes Test tube racks Vortex mixer Aspirator for washing procedure Microplate reader (capable of measuring A450 and A630 values)

[Contact us]

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