

## Rat UCP1 (Uncoupling Protein 1, Mitochondrial) ELISA kit

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This kit applies sandwich ELISA method for the quantitative detection of UCP1 (Uncoupling Protein 1, Mitochondrial) in rat samples. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Rat UCP1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Rat UCP1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Rat UCP1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm  $\pm$ 10nm. The concentration of Rat UCP1 in the samples is then determined by comparing the OD of the samples to the standard curve.

Catalog No.	3036326
Size	96-Wells
Product Category	ELISA (Quantitative)
Reactivity	Rat
Sample	Tissue Homogenates; Cell Lysates; Cell Culture Supernates; Other Biological Fluids
Assay Method	Sandwich ELISA
Assay Duration	3.5 hours
Sensitivity	0.119 ng/mL
Standard Curve Range	0.32-20 ng/mL
Storage/Stability	-20°C/1 year; 4°C/6 months

