

Rat Smad4 (Mothers Against Decapentaplegic Homolog 4) ELISA kit

This kit applies sandwich ELISA method for the quantitative detection of Smad4 (Mothers Against Decapentaplegic Homolog 4) in rat samples. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Rat Smad4. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Rat Smad4. 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 Smad4, 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 Smad4 in the samples is then determined by comparing the OD of the samples to the standard curve.

Catalog No.	3037641
Size	96-Wells
Product Category	ELISA (Quantitative)
Reactivity	Rat
Sample	Tissue Homogenates; Cell Lysates; Other Biological Fluids
Assay Method	Sandwich ELISA
Assay Duration	3.5 hours
Sensitivity	0.054 ng/mL
Standard Curve Range	0.16-10 ng/mL
Storage/Stability	-20°C/1 year; 4°C/6 months