Rat Membrane primary amine oxidase(AOC3) ELISA kit

Product Code	CSB-EL001855RA
Abbreviation	AOC3
Protein Biological Process 1	Cell Adhesion
Target Name	amine oxidase, copper containing 3 (vascular adhesion protein 1)
Uniprot No.	O08590
Alias	HPAO, SSAO, VAP-1, VAP1, amine oxidase, copper containing 3|copper amine oxidase|semicarbazide-sensitive amine oxidase|vascular adhesion protein 1
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Cell adhesion
Sample Types	serum, plasma, tissue homogenates
Detection Range	7.8 ng/mL-500 ng/mL
Sensitivity	1.95 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Others
Gene Names	Aoc3
Tag Info	quantitative
Protein Description	Sandwich

Description

The Rat Membrane primary amine oxidase (AOC3) ELISA kit is a powerful tool for the quantitative detection of AOC3 in serum, plasma, and tissue homogenates from Rattus norvegicus (Rat) samples.

This ELISA kit offers a wide detection range of 7.8 ng/mL to 500 ng/mL and a sensitivity of 1.95 ng/mL, enabling precise and accurate quantification of AOC3 in your samples. The assay time is short, ranging from 1 to 5 hours, and requires only a small sample volume of 50-100ul.

The assay principle is a sandwich method, where the AOC3 in the sample is

captured by a coated antibody and detected by a biotinylated detection antibody, followed by a streptavidin-HRP conjugate, and finally, substrate solution. The signal is detected at a wavelength of 450 nm.

This kit is suitable for research in various areas and is particularly useful for studies involving AOC3?such as may be involved in the process of fat formation. The Rat Membrane primary amine oxidase (AOC3) ELISA kit provides reliable and consistent results for your experiments.

Target Details

Copper amine oxidases catalyze the oxidative conversion of amines to aldehydes in the presence of copper and quinone cofactor. The product is a major protein on the adipocyte plasma membrane. It has adhesive properties and also has functional monoamine oxidase activity. A pseudogene for this gene has been discribed and is located approximately 9-kb downstream.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%
Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision (Precision between assays): CV%<10%
Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat AOC3 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	85
	Range %	84-94
1:2	Average %	96
	Range %	91-102
1:4	Average %	84
	Range %	81-88
1:8	Average %	93
	Range %	88-99

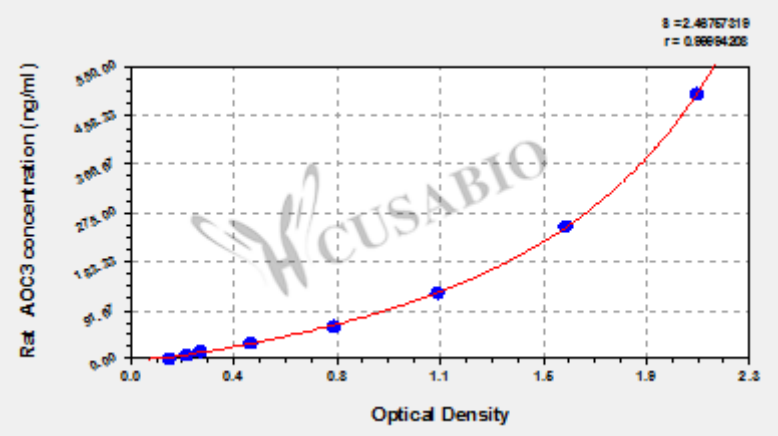
Recovery

The recovery of rat AOC3 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	92	87-97
EDTA plasma (n=4)	94	91-97

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
500	2.075	2.086	2.081	1.931
250	1.540	1.669	1.605	1.455
125	1.111	1.156	1.134	0.984
62.5	0.758	0.750	0.754	0.604
31.2	0.437	0.465	0.451	0.301
15.6	0.261	0.277	0.269	0.119
7.8	0.211	0.223	0.217	0.067
0	0.149	0.150	0.150	?

Msds

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