



Rat Angiopoietin 1,ANG-1 ELISA Kit

Product Code	CSB-E07303r
Abbreviation	ANGPT1
Protein Biological Process 1	Angiogenesis
Target Name	angiopoietin 1
Uniprot No.	O35460
Alias	AGP1, AGPT, ANG1
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	6.25 ng/mL-400 ng/mL
Sensitivity	1.56 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	Cardiovascular
Gene Names	Angpt1
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat ANGPT1 ELISA Kit was designed for the quantitative measurement of Rat ANGPT1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 6.25 ng/mL-400 ng/mL and the sensitivity is 1.56 ng/mL.

Target Details

Angiopoietins are proteins with important roles in vascular development and angiogenesis. All angiopoietins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. This protein is a secreted glycoprotein that activates the receptor by inducing its tyrosine phosphorylation. It plays a critical role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme. The protein also contributes to blood vessel maturation and stability, and may be involved in early development of the



heart.

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 ANG-1 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 %	104
	Range %	93-109
1:2	Average %	112
	Range %	103-116
1:4	Average %	94
	Range %	84-98
1:8	Average %	90
	Range %	83-94

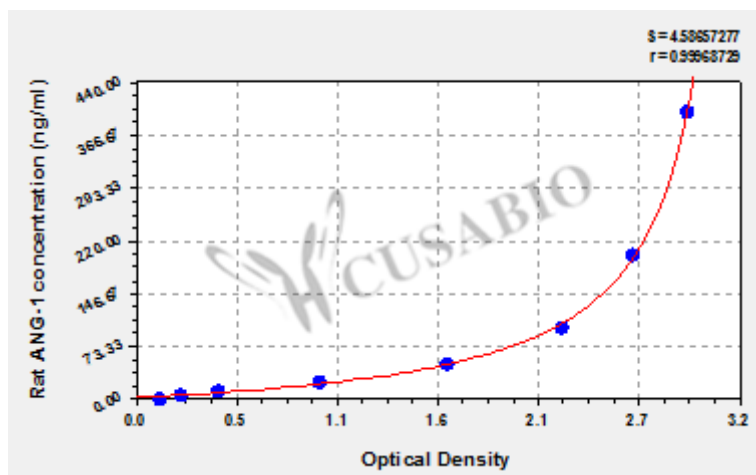
Recovery

The recovery of rat ANG-1 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)	90	83-94
EDTA plasma (n=4)	103	92-108

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
400	2.985	2.845	2.915	2.781
200	2.681	2.579	2.630	2.496
100	2.297	2.213	2.255	2.121
50	1.684	1.622	1.653	1.519
25	1.001	0.956	0.979	0.845
12.5	0.449	0.441	0.445	0.311
6.25	0.251	0.242	0.247	0.113
0	0.132	0.136	0.134	?

Msds

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