Mouse Angiopoietin 1,ANG-1 ELISA Kit

Product Code	CSB-E07302m
Abbreviation	ANGPT1
Protein Biological Process 1	Angiogenesis
Target Name	angiopoietin 1
Uniprot No.	O08538
Alias	AGP1, AGPT, ANG1
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	1.25 ng/mL-80 ng/mL
Sensitivity	0.312 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

The product CSB-E07302m is a sandwich ELISA kit developed to measure levels of mouse angiopoietin 1 (ANG-1) in multiple samples, including serum, plasma, or tissue homogenates. The enzyme-substrate chromogenic reaction is also used to amplify the signal and quantify the levels of the analyte through the intensity of the colored product. The color intensity positively correlates with the amount of ANG-1 bound in the initial step.

ANG-1, encoded by the gene ANGPT1, is an oligomeric-secreted glycoprotein that exerts powerful vascular protective effects by inhibiting plasma leakage and vascular inflammation, as well as preventing endothelial death. It is required for the correct organization and maturation of newly formed vessels and promotes quiescence and structural integrity of adult vasculature. Apart from promoting vessel stability, ANG-1 also stimulates vessel remodeling and angiogenesis and

	has been implicated in pulmonary hypertension (PH). ANG-1 binds and signals through the receptor tyrosine kinase Tie2.
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.
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