

Porcine ANG1 Antibody Pair Set

Catalog No.	E-KAB-0667	Applications	ELISA
Synonyms	ANG-1;ANGPT1;AGP1;AGPT		

Kit components & Storage

Title	Specifications	Storage
Porcine ANG1 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Porcine ANG1 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

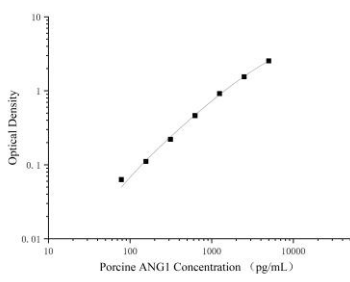
Product Information

Items		Characteristic (E-KAB-0667)	
		Porcine ANG1 Capture Antibody	Porcine ANG1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Porcine ANG1 protein	Recombinant Porcine ANG1 protein
	Swissprot	Q9BDY8	
Product details	Reactivity	Porcine	Porcine
	Host	Mouse	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Protein A or G	Antigen Affinity
	Specificity	Detects Porcine ANG1 in ELISAs.	

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Applications

Porcine ANG1 Sandwich ELISA Assay

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Porcine ANG1 Capture Antibody	 <p>The graph displays a standard curve for the Porcine ANG1 Sandwich ELISA Assay. The x-axis represents Porcine ANG1 Concentration in pg/mL on a logarithmic scale from 10 to 10,000. The y-axis represents Optical Density on a logarithmic scale from 0.01 to 10. The data points form a straight line, indicating a linear relationship between concentration and optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Porcine ANG1 Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>0.1</td> </tr> <tr> <td>200</td> <td>0.2</td> </tr> <tr> <td>500</td> <td>0.5</td> </tr> <tr> <td>1000</td> <td>1.0</td> </tr> <tr> <td>2000</td> <td>2.0</td> </tr> <tr> <td>5000</td> <td>5.0</td> </tr> <tr> <td>10000</td> <td>10.0</td> </tr> </tbody> </table>	Porcine ANG1 Concentration (pg/mL)	Optical Density	100	0.1	200	0.2	500	0.5	1000	1.0	2000	2.0	5000	5.0	10000	10.0
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ELISA Detection	1:1000-1:10000	Porcine ANG1 Detection Antibody (Biotin)																	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

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. The protein encoded by this gene 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 and inhibits endothelial permeability. The protein also contributes to blood vessel maturation and stability, and may be involved in early development of the heart. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

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