

## Porcine GDF15 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0670	<b>Applications</b>	ELISA
<b>Synonyms</b>	GDF-15;MIC-1;MIC1;NAG-1;PDF;PLAB;PTGFB;TGF-PL		

### Kit components & Storage

Title	Specifications	Storage
Porcine GDF15 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Porcine GDF15 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

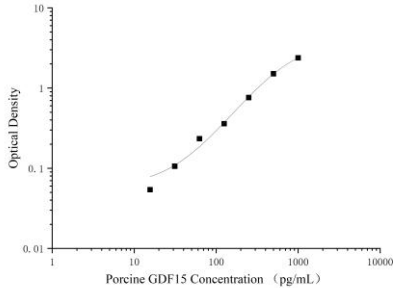
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0670)	
		Porcine GDF15 Capture Antibody	Porcine GDF15 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Porcine GDF15 protein	Recombinant Porcine GDF15 protein
	Swissprot	D3Y269	
Product details	Reactivity	Porcine	Porcine
	Host	Goat	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	Antigen Affinity	Antigen Affinity
	Specificity	Detects Porcine GDF15 in ELISAs.	

### Applications

Porcine GDF15 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																		
ELISA Capture	0.5-4 µg/mL	Porcine GDF15 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Porcine GDF15 Concentration (pg/mL). The x-axis ranges from 1 to 10,000 pg/mL, and the y-axis ranges from 0.01 to 10. The data points show a clear upward trend, indicating that as the concentration of Porcine GDF15 increases, the optical density also increases. The curve is smooth and passes through several data points.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Porcine GDF15 Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>20</td> <td>0.1</td> </tr> <tr> <td>50</td> <td>0.2</td> </tr> <tr> <td>100</td> <td>0.4</td> </tr> <tr> <td>200</td> <td>0.8</td> </tr> <tr> <td>500</td> <td>1.5</td> </tr> <tr> <td>1000</td> <td>3.0</td> </tr> <tr> <td>2000</td> <td>6.0</td> </tr> </tbody> </table>	Porcine GDF15 Concentration (pg/mL)	Optical Density	10	0.05	20	0.1	50	0.2	100	0.4	200	0.8	500	1.5	1000	3.0	2000	6.0
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ELISA Detection	1:1000-1:10000	Porcine GDF15 Detection Antibody (Biotin)																			

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

### Background

Bone morphogenetic proteins (e.g. , BMP9 , MIM 605120) are members of the transforming growth factor-beta (see TGFB1 , MIM 190180) superfamily and regulate tissue differentiation and maintenance. They are synthesized as precursor molecules that are processed at a dibasic cleavage site to release C-terminal domains containing a characteristic motif of 7 conserved cysteines in the mature protein. GDF15 mRNA is most abundant in the liver , with lower levels seen in some other tissues. Its expression in liver can be significantly up-regulated in during injury of organs such as liver , kidney , heart and lung.