

Human PL Antibody Pair Set

Catalog No.	E-KAB-0518	Applications	ELISA
Synonyms	chorionic somatomammotropin;Chorionic somatomammotropin hormone 1;Choriomammotropin;Lactogen		

Kit components & Storage

Title	Specifications	Storage
Human PL Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human PL 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.

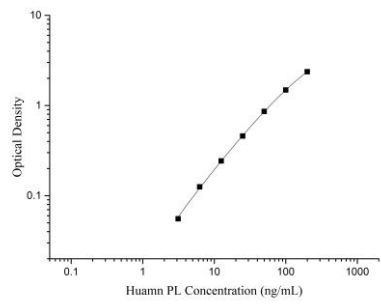
Product Information

Items		Characteristic (E-KAB-0518)	
		Human PL Capture Antibody	Human PL Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human PL protien	Recombinant Human PL protien
	Swissprot	PODML2	
Product details	Reactivity	Human	Human
	Host	Rabbit	Rabbit
	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 Human PL in ELISAs.	

For Research Use Only

Applications

Human PL Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images								
ELISA Capture	0.5-4 µg/mL	Human PL Capture Antibody	 <p>The graph is a log-log plot. The x-axis is labeled 'Human PL Concentration (ng/mL)' and ranges from 0.1 to 1000. The y-axis is labeled 'Optical Density' and ranges from 0.1 to 10. The data points form a straight line, indicating a linear relationship between the concentration of Human PL and the optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human PL Concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.1</td> </tr> <tr> <td>10</td> <td>1.0</td> </tr> <tr> <td>100</td> <td>10.0</td> </tr> </tbody> </table>	Human PL Concentration (ng/mL)	Optical Density	1	0.1	10	1.0	100	10.0
Human PL Concentration (ng/mL)	Optical Density										
1	0.1										
10	1.0										
100	10.0										
ELISA Detection	1:1000-1:10000	Human PL Detection Antibody (Biotin)									

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

Background

The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones and plays an important role in growth control. The gene is located at the growth hormone locus on chromosome 17 along with four other related genes in the same transcriptional orientation, an arrangement which is thought to have evolved by a series of gene duplications. Although the five genes share a remarkably high degree of sequence identity, they are expressed selectively in different tissues. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization.