

Mouse PR3 ELISA Kit (Ready to Use)

Cat#: orb553990 (Product CoA)

Organism:

Mus musculus; mouse

Introduction

Item	Standard		Test Result
Description	The kit is a sandwich enzyme immunoassay technique for the in vitro quantitative measurement of PR3 in mouse serum, plasma, tissue homogenates or other biological fluids.		Conform
Identification	Colorimetric		Positive
Composition	Pre-coated, ready to use 96-well strip plate	1	Conform
	Standard (freeze dried)	2	
	Standard Diluent	1 x20ml	
	Detection Solution A	1 x12ml	
	Detection Solution B	1 x12ml	
Assay Range	0.156-10ng/mL		Conform

Sensitivity

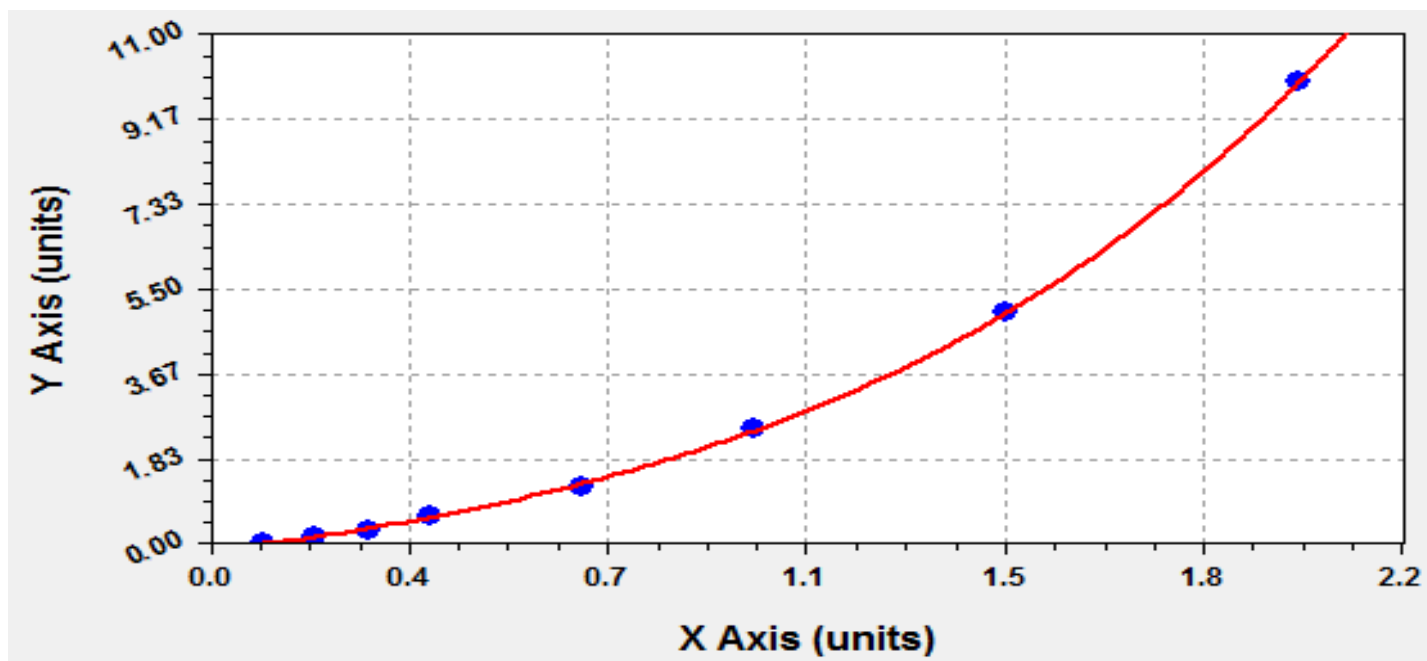
The minimum detectable dose of mouse PR3 is typically less than 0.058ng/mL.

The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration

Standard curve

The standard curve is provided for demonstration only. The user should perform a standard test in each independent experiment.

ng/mL	Standard		Average	Corrected
0	0.103	0.11	0.1065	---
0.156	0.209	0.198	0.2035	0.097
0.312	0.302	0.299	0.3005	0.194
0.625	0.411	0.413	0.412	0.3055
1.25	0.689	0.691	0.69	0.5835
2.5	1.002	1.012	1.007	0.9005
5	1.439	1.503	1.471	1.3645
10	2.003	2.013	2.008	1.9015



Recovery

Matrices listed below were spiked with certain level of recombinant mouse PR3 and the recovery rates were calculated by comparing the measured value to the expected amount of PR3 in samples.

Matrix	Recovery range (%)	Average (%)
serum(n=5)	97-98%	98%
EDTA plasma(n=5)	98-100%	99%
heparin plasma(n=5)	89-99%	94%

Linearity

The linearity of the kit was assayed by testing samples spiked with appropriate concentration of mouse PR3 and their serial dilutions. The results were demonstrated by the percentage of calculated concentration to the expected.

Sample	1: 2	1: 4	1: 8	1: 16
serum(n=5)	78-102%	84-93%	94-102%	89-102%
EDTA plasma(n=5)	78-86%	89-98%	84-93%	93-102%
heparin plasma(n=5)	81-94%	93-101%	86-103%	86-102%

Precision

Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level mouse PR3 were tested 20 times on one plate, respectively.

Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level mouse PR3 were tested on 3 different plates, 8 replicates in each plate.

$$CV(\%) = SD/mean \times 100$$

	Intra-assay Precision			Inter-assay Precision		
	1	2	3	1	2	3
Sampl						
n	20	20	20	8	8	8
Mean	0.83	5.99	8.97	1.38	5.46	8.01
SD	0.06	0.40	0.57	0.10	0.39	0.55
CV (%)	6.70	6.62	6.32	6.91	7.15	6.85