ELK Biotechnology

β

Activated serum, plasma

0.11 ng/mL

0.16-10 ng/mL

TGF-b1

		48T	96T	
	Pre-coated Microplate	6 x 8	12 x 8	4°C/-20°C
	Standard (lyophilized)	1	2	4°C/-20°C
&	Standard/Sample Diluent Buffer	10 mL	20 mL	4°C/-20°C
100×	Biotinylated Antibody (100×)	60 µL	120 µL	4°C/-20°C
	Biotinylated Antibody Diluent	6 mL	12 mL	4°C/-20°C
HRP 100×	Streptavidin-HRP (100×)	60 µL	120 µL	4°C/-20°C
	HRP Diluent	6 mL	12 mL	4°C/-20°C
25×	Wash Buffer (25×)	10 mL	20 mL	4°C/-20°C
TMB	TMB Substrate Solution	6 mL	10 mL	4°C/-20°C(
	Stop Reagent	3 mL	6 mL	4°C/-20°C
A	Activator A	3 mL	5 mL	
B	Activator B	3 mL	5 mL	
	Plate Covers	1	2	

1. Ĵ" ≠ ¸H m" 1

2. * 4℃ 1 1

HRP ˇ ˜ 2 -20℃ 4℃ 6

* 4℃ 6 -20℃ 1

3. ² ÈÛ $ 4℃

4

5 J [₱ ¦ /¦n ™ [PG * 1 [

6. л

1. 2 4℃ 1000×g 20
-20℃ -80℃
2. 30 2-8℃ 1000×g 15
EDTA-Na_2 -20℃ -80℃
3. PBS 0.01M pH7.0-7.2
PBS 1:9
PBS 1%

2
5000×g 5-10
BC016 BCA

4. 1000×g 20
-20℃ -80℃
5. 24 2000×g 15
-20℃
6. 2-8℃, 1000×g 15
-20℃
7. 1000×g 20

1.
2. 1 4℃
-20℃ 1 -80℃ 3-6

TGF-b

LAP TGF-b

TGF-b L/AP TGF-b

140µL & 20µL 20µL A 10 ⌠

20µL B

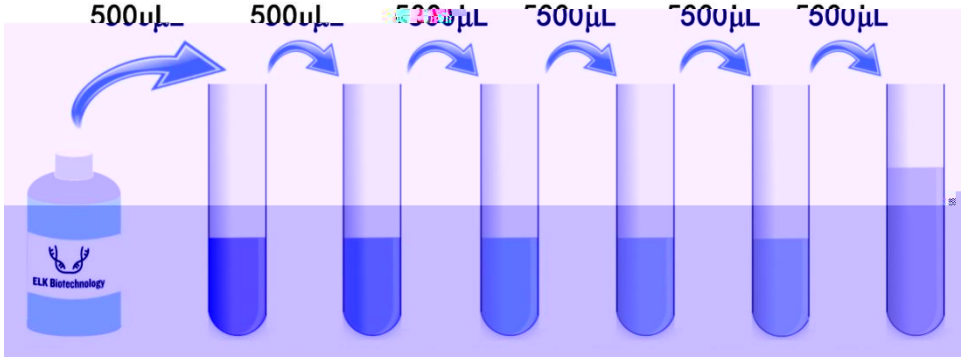
10

1. 50 5 µL 245 µL & 50
2. 100 5 µL 495 µL & 100
3. 1000 5 µL 95 µL & 20 9 5
20 245 µL 7 & 50 1000
4. 100000 ω v ŕ

1. 30

2. 25× 1× 4℃

3. & 1.0 mL 10
10 ng/mL 10 ng/mL 5 ng/mL 2.5
ng/mL 1.25 ng/mL 0.63 ng/mL 0.32 ng/mL 0.16 ng/mL 0 ng/mL
15



Stock
Standard

ng/mL 10 5 2.5 1.25 0.63 0.32 0.16

4. 100 µL/
100-200 µL 15 1:100
1 µL 99 µL

5. 100 µL/ 100-200
µL 15 HRP 1:100
1 µL 99 µL

6. TMB ——

1.

2.

1000×g 1 4-5

3.

40℃

4. 10

5.

6. TMB TMB

7.

8.

9.

10.

1.

2.

3.

1.

2. 100 µL

37℃ 80

3. 3 200 µL 1-2

4. 100µL 15 37℃ 50

5. 3 200µL 1-2

6. 100 µL 15 37℃ 50

7. 5 200 µL 1-2

8. TMB 90 µL 37℃ 20

30

9. 50 µL

10. 450 nm OD

1. OD OD

2. OD OD

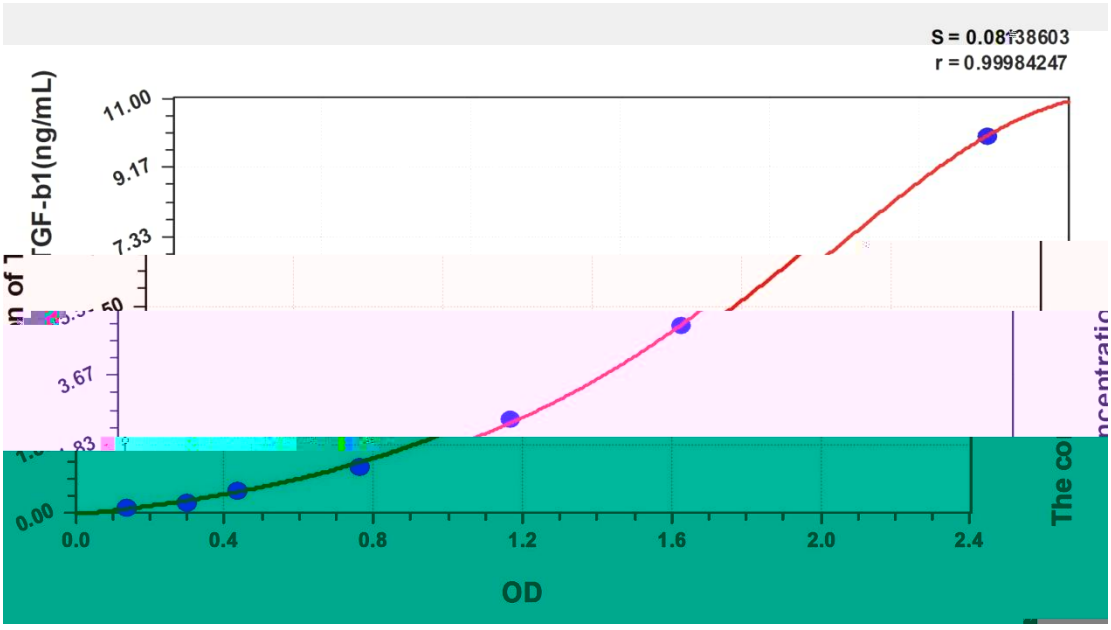
X Y

OD

OD

curve expert

10	2.258	2.17
5	1.593	1.505
2.5	1.136	1.048
1.25	0.847	0.759
0.63	0.518	0.43
0.32	0.385	0.297
0.16	0.226	0.138
0	0.088	0.000



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( ):CV%<8%

1 20

( ):CV%<10%

3 40

-

TGF-b1

(n=5)	82-95%	88%
EDTA (n=5)	87-101%	94%
heparin (n=5)	87-99%	93%

-

TGF-b1 2 4 8 16

	1:2	1:4	1:8	1:16
(n=5)	83-96%	93-102%	95-103%	93-102%
EDTA (n=5)	82-96%	92-103%	90-99%	89-102%
heparin (n=5)	85-96%	82-96%	85-98%	95-104%

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	Avidin-HRP	
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		TMB 450nm , 650nm

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		15-30min
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		PH
	,	(NaN_3), , .
,	NaN_3 ,	NaN_3
	,	,
,		TMB 450nm , 650nm

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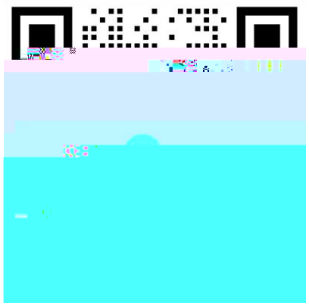
2. ,

3.

4.

5. ELK Biotechnology

6. 6

027-59760950

elkbio@elkbiotech.cn