ELK Biotechnology

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serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids

20.1 pg/mL

31.25-2000 pg/mL

GDF10 96

GDF10 GDF10 GDF10

GDF10 GDF10

HRP TMB TMB

GDF10

450 nm (OD)

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

1. 50 5 μL 245 μL & 50
2. 100 5 μL 495 μL & 100
3. 1000 5 μL 95 μL & 20 5 μL 20 245 μL & 50 1000
4. 100000 5 μL 195 μL & 40 5 μL 40 245 μL & 50 5 μL 2000 245 μL & 50 100000
5. 3 μL 100
6. PBS &

1. / (Original solution)
2.

1. 25 μL(
) 25 μL，37℃ 80

2. 200 μL 3
100 μL 37℃ 50

3. 200 μL 3
100 μL HRP 37℃ 50

4. 200 μL 5
90 μL TMB，37℃ 20 min

5. 50 μL 450 nm

1. 30

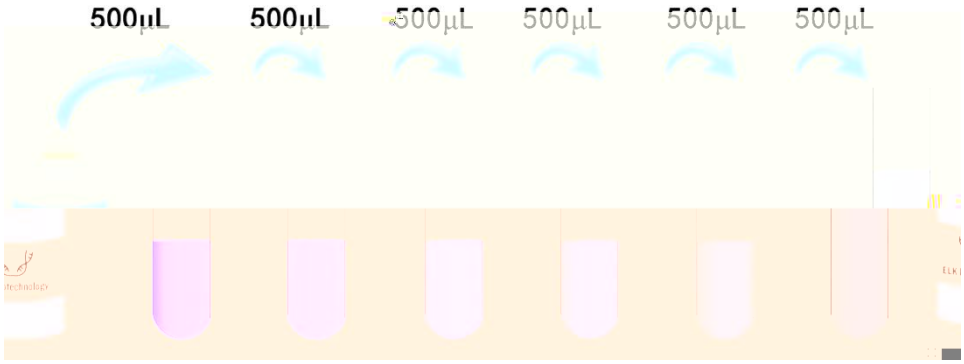
2. 25× 1× 4℃

3. & 1.0 mL 10

2000 pg/mL 2000 pg/mL 1000 pg/mL

500 pg/mL 250 pg/mL 125 pg/mL 62.5 pg/mL 31.25 pg/mL 0 pg/mL

15



Stock

Standard

pg/mL 2000 1000 500 250 125 62.5 31.25

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. 25 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

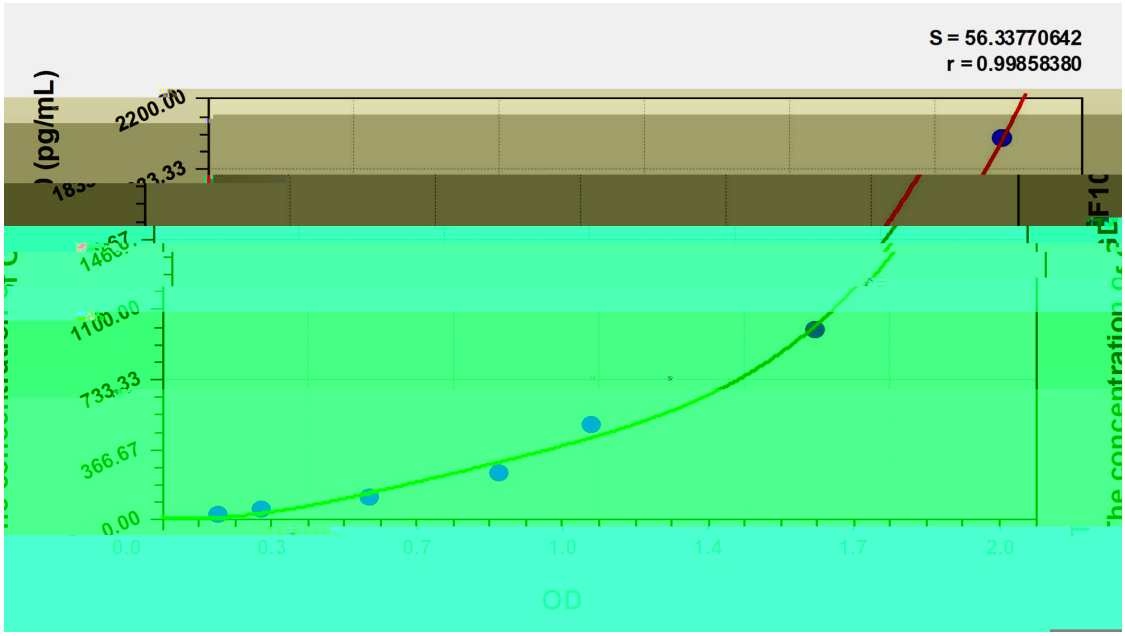
X Y

OD

OD

curve expert

pg/mL		
2000	1.952	1.859
1000	1.622	1.529
500	1.099	1.006
250	0.88	0.787
125	0.579	0.486
62.5	0.325	0.232
31.25	0.224	0.131
0	0.093	0.000



●

( ):CV%<8%

1 20

( ):CV%<10%

3 40

●

GDF10

(n=5)	89-102%	96%
EDTA (n=5)	88-111%	100%
heparin (n=5)	93-110%	102%

●

GDF10 2 4 8 16

1:2 1:4 1:8 1:16

(n=5) 93-99%

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		, , ,
	Avidin-HRP	
		,
		TMB 450nm , 650nm

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

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		200 μL/ , . ,
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		3 , 2 (2)

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	,	,3000 rpm 6min
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1. , ,
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2. ,

3.

4.

5. ELK Biotechnology

6. 6

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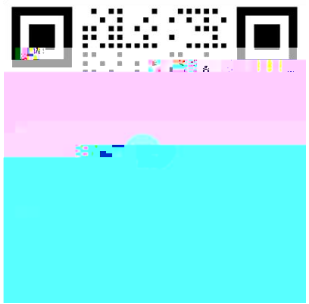
elkbio@elkbiotech.cn