ELK Biotechnology

10(GDF10)

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

0.1 ng/mL

0.16-10 ng/mL

GDF10

		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
	Plate Covers	1	2	
	Instruction Manual	1	1	

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%

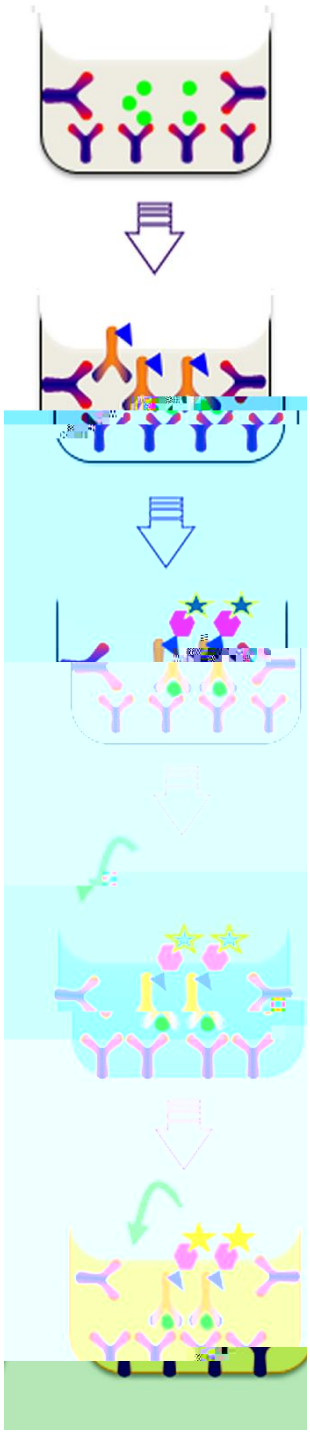
2
5000×g 5-10

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

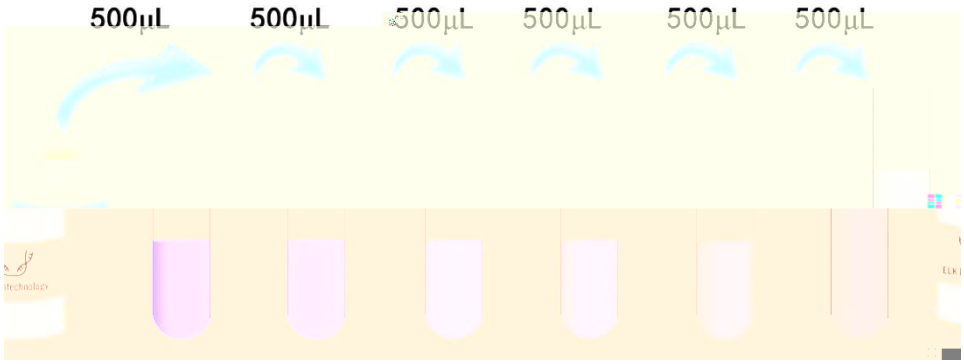
4. 200 μL 5
90 μL TMB，37℃ 20 min

5. 50 μL 450 nm

1. 30

2. 25× 1× 4℃

3. & 1.0 mL 10
10 ng/mL 10 ng/mL 5 ng/mL 2.5 ng/mL 1.25 ng/mL 0.625 ng/mL 0.313 ng/mL 0.156 ng/mL 0 ng/mL
15



ng/mL 10 5 2.5 1.25 0.625 0.313 0.156

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

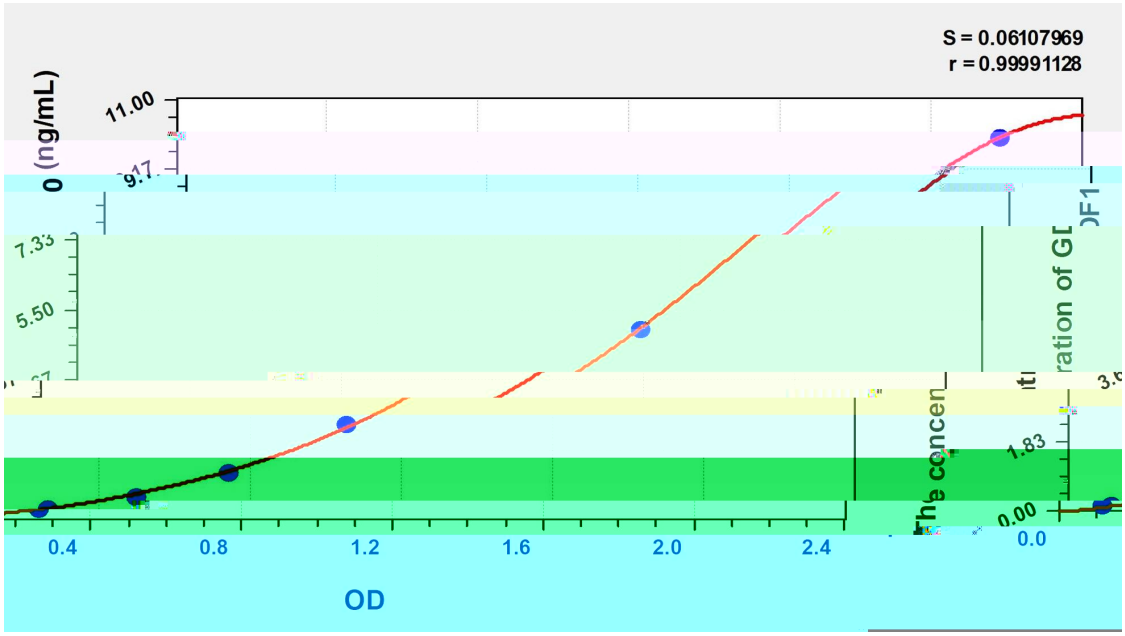
X Y

OD

OD

curve expert

ng/mL		
10	2.247	2.152
5	1.569	1.474
2.5	1.135	1.04
1.25	0.827	0.732
0.625	0.583	0.488
0.313	0.353	0.258
0.156	0.208	0.113
0	0.095	0.000



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( ):CV%<8%

1 20

( ):CV%<10%

3 40

-

GDF10

(n=5)	94-106%	100%
EDTA (n=5)	81-94%	88%
heparin (n=5)	87-109%	98%

-

GDF10 2 4 8 16

	1:2	1:4	1:8	1:16
(n=5)	81-116%	85-94%	91-110%	93-107%
EDTA (n=5)	81-114%	89-116%	85-115%	86-102%
heparin (n=5)	87-112%	86-100%	81-106%	94-106%

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	Avidin-HRP	
		,
		TMB C , 450nm 650nm

Y

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

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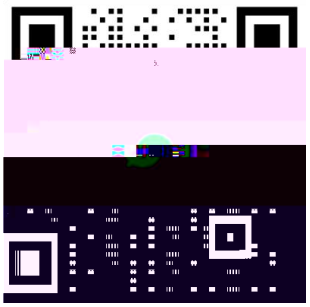
3.
4.
5. ELK Biotechnology
6. 6

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