ELK Biotechnology

(LNGFR)

ELK9458MS

Serum, plasma, tissue homogenates and other biological fluids

0.056 ng/mL

0.16-10 ng/mL

LNGFR

		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	

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LNGFR LNGFR LNGFR

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HRP TMB TMB

LNGFR

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

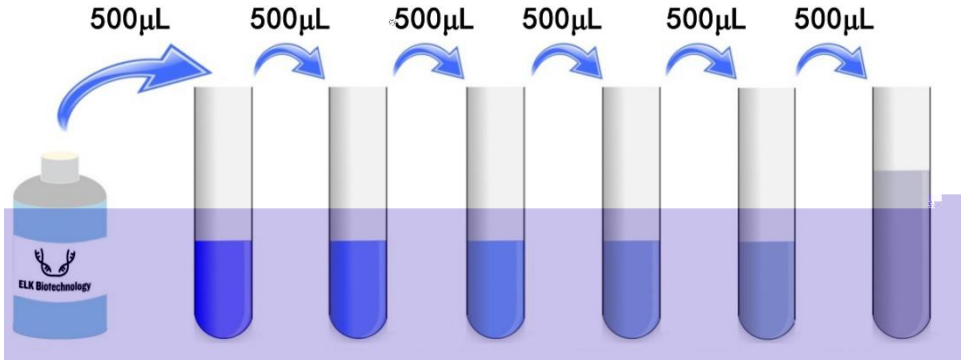
4. 200 μL 5
90 μL TMB，37℃ 20 min

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



Stock
Standard

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

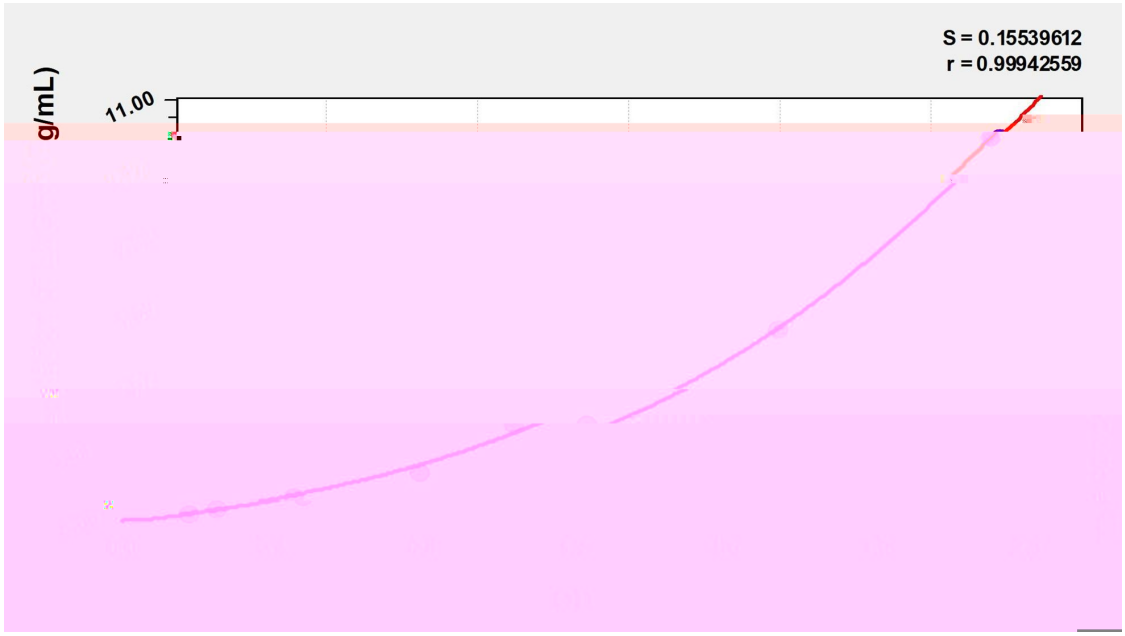
X Y

OD

OD

curve expert

Concentration (ng/mL)	OD	Corrected OD
10	2.202	2.115
5	1.636	1.549
2.5	1.118	1.031
1.25	0.875	0.788
0.625	0.552	0.465
0.313	0.33	0.243
0.156	0.262	0.175
0	0.087	0.000



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( ):CV%<8%

1 20

( ):CV%<10%

3 40

-

LNGFR

(n=5)	85-91%	88%
EDTA (n=5)	82-122%	102%
heparin (n=5)	89-101%	95%

-

LNGFR 2 4 8 16

	1:2	1:4	1:8	1:16
(n=5)	89-113%	81-116%	85-93%	93-101%
EDTA (n=5)	81-89%	85-98%	82-93%	81-103%
heparin (n=5)	94-102%	85-114%	90-98%	84-118%

ELISA

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	Avidin-HRP	
		,
		TMB 450nm , 650nm

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

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		200 μL/ , . ,
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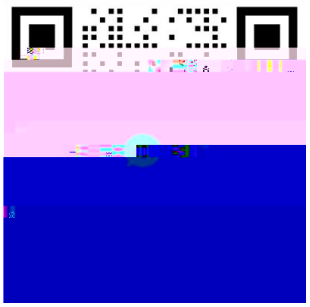
4.
5. ELK Biotechnology
6. 6

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