

ELK Easy Step ELISA Kit

It's heard that every researcher doing ELISA experiments has this kind of trouble:

The experiment time is too long!!

The steps are too complicated!!

I don't have enough samples!!

ELK's unique dedicated standard strip effectively increases the number of samples tested.

On the road of scientific research, we have been constantly studying, and we hope that our small step will help you take a big step on the road of scientific research.

Now, there is an Easy Step ELISA Kit to solve your scientific research troubles!

Easy Step ELISA is a new process independently developed by ELK Biotechnology based on the three-step method. It directly labels the detection antibody with HRP to achieve one-step sampling.

Compared with traditional method kits, the entire reaction process time is reduced by half, which greatly improves experimental efficiency.

One-step sandwich method EasyStep principle

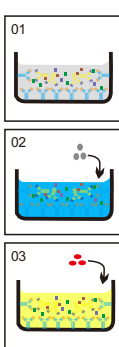
The kit adopts the sandwich method principle. Coat the specific antibody in a 96-well microplate, add the standard/sample, so that the protein in the standard or the protein in the sample binds to the antibody solid-phased on the microplate, and then add the HRP-coupled antibody. After thoroughly washing the unbound HRP-conjugated antibody, add TMB substrate to develop color. TMB is converted into blue under the catalysis of peroxidase and into the final yellow under the action of acid. The depth of color is positively correlated with the target protein in the sample. Use a microplate reader to measure the absorbance (OD value) at a wavelength of 450 nm, and calculate the sample concentration by drawing a standard curve.



Experimental operation process:

Simple, fast, optimized experimental steps

Sandwich method



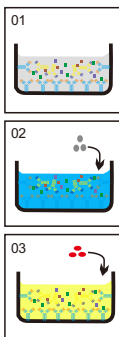
1. After the kit is equilibrated at room temperature, add 50μL Standard/ Sample Diluent Buffer to each Standard well , and add 50 μL sample to the sample well, Immediately add 50 μL 1× HRP Conjugate Antibody Working Solution to each well , Incubate at 37°C on Microplate oscillator for 60 min .
2. Discard the liquid in the plate, add 200 μL 1× Wash Buffer to each well, and wash the plate 5 times. After pat it dry against clean absorbent paper, add 90 μL TMB Substrate Solution to each well, incubate at 37°C for 20 minutes in the dark.
3. Add 50 μL Stop Solution to each well, shake plate on a plate shaker for 1 minute to mix. Record the OD at 450 nm immediately, calculation of the results.

One-step competitive method EasyStep principle

This assay employs the competitive inhibition enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with specific antigen, and the standard plate wells that pre-coated using protein-related techniques are provided separately. Standard/Sample Diluent Buffer or samples are added to the appropriate microtiter plate wells , then added a HRP-conjugated antibody to each microplate well and incubated . After TMB substrate solution is added, the enzyme -substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ±10nm. The concentration of antigen in the samples is then determined by comparing the OD of the samples to the standard curve.



Competitive method



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2. Discard the liquid in the plate, add 200 μL 1× Wash Buffer to each well, and wash the plate 5 times. After pat it dry against clean absorbent paper, add 90 μL TMB Substrate Solution to each well, incubate at 37°C for 20 minutes in the dark.
3. Add 50 μL Stop Solution to each well, shake plate on a plate shaker for 1 minute to mix. Record the OD at 450 nm immediately, calculation of the results.

Although the two principles are different, we have unified the steps !!!!!

Worry-free

Provide technical guidance throughout the entire process.

Product Code	Antigen	Method	Standard	Sample
ELK001ES	Human IL6(Interleukin 6) ELISA Kit	Sandwich	0.1pg/ml	1.56-100 pg/mL
ELK002ES	Human CEA(Carcinoembryonic Antigen) ELISA Kit	Sandwich	7.5 pg/ml	0.16ng/ml-10ng/ml
ELK003ES	Human PCT(Procalcitonin) ELISA Kit	Sandwich	1.5 pg/ml	7.81 pg/ml-500 pg/ml
ELK004ES	Human AMH(Anti-Mullerian Hormone) ELISA Kit	Sandwich	0.028 ng/ml	0.31 ng/ml-20 ng/ml
ELK005ES	Human Cys-C(CystatinC) ELISA Kit	Sandwich	25 pg/ml	78.1 pg/ml-5000 pg/ml
ELK006ES	Human GH(Growth Hormone) ELISA Kit	Sandwich	0.2pg/ml	12.5 pg/ml-800pg/ml
ELK007ES	Human BNP(Brain Natriuretic Peptide) ELISA Kit	Sandwich	6.8 pg/ml	31.25 pg/ml-2000 pg/ml
ELK008ES	Human sST2(Soluble Suppression Of Tumorigenicity 2) ELISA Kit	Sandwich	0.25 ng/ml	0.47 ng/ml-30 ng/ml
ELK009ES	Human OC(Osteocalcin) ELISA Kit	Sandwich	0.14 ng/ml	0.23 ng/ml-15 ng/ml
ELK010ES	Human PGI2(Prostaglandin I2) ELISA Kit	Sandwich	7 pg/ml	0.16 ng/ml-10 ng/ml
ELK011ES	Human PSA(ProstateSpecific Antigen) ELISA Kit	Sandwich	80 pg/ml	0.31 ng/ml-20 ng/ml
ELK012ES	Human CRP(C Reactive Protein) ELISA Kit	Sandwich	53 pg/mL	0.23 ng/mL - 15ng/mL
ELK013ES	Human PRL(Prolactin) ELISA Kit	Sandwich	248 pg/mL	0.313 ng/mL - 20 ng/mL
ELK014ES	Human HE4(Epididymal protein 4) ELISA kit	Sandwich	160 pg/mL	0.16 ng/mL - 10 ng/mL
ELK015ES	Human HBP(Heparin-Binding Protein)ELISA kit	Sandwich	39 pg/mL	39 pg/mL - 2500 pg/mL
ELK016ES	Human CP(C-Peptide) ELISA Kit	Sandwich	237 pg/mL	0.625 ng/mL - 40 ng/mL
ELK017ES	Human FE(Ferritin) ELISA Kit	Sandwich	3.2 pg/mL	0.313 ng/mL - 20 ng/mL
ELK018ES	Mouse FE(Ferritin) ELISA Kit	Sandwich	6.4 pg/mL	0.625 ng/mL - 40 ng/mL
ELK019ES	Human MPO(Myeloperoxidase) ELISA Kit	Sandwich	184 pg/mL	0.625 ng/mL - 40 ng/mL
ELK020ES	Human E2(Estradiol) ELISA Kit	Competitive Inhibition	25 pg/mL	25 pg/mL - 1600 pg/mL
ELK021ES	Mouse E2(Estradiol) ELISA Kit	Competitive Inhibition	25 pg/mL	25 pg/mL - 1600 pg/mL
ELK022ES	Rat E2(Estradiol) ELISA Kit	Competitive Inhibition	25 pg/mL	25 pg/mL - 1600 pg/mL
ELK023ES	Human ANXA1(Annexin A1) ELISA Kit	Sandwich	16.8 pg/ml	0.313 ng/mL - 20 ng/mL
ELK024ES	Human EFNA1(Ephrin A1) ELISA Kit	Sandwich	22.5 pg/ml	0.16ng/ml-10ng/ml
ELK025ES	Human VASP(Vasodilator Stimulated Phosphoprotein) ELISA Kit	Sandwich	17.5 pg/ml	0.16ng/ml-10ng/ml
ELK026ES	Human CEA(Carcinoembryonic Antigen Related Cell Adhesion Molecule 1) ELISA Kit	Sandwich	89.5 pg/ml	1.57-100 ng/mL
ELK027ES	Human VEGF165(Vascular Endothelial Growth Factor 165) ELISA Kit	Sandwich	15 pg/ml	31.25 pg/mL - 2000 pg/mL
ELK028ES	Human ADP(Adiponectin) ELISA Kit	Sandwich	1.9 ng/ml	3.13 ng/ml - 200 ng/ml
ELK029ES	Mouse ADP(Adiponectin) ELISA Kit	Sandwich	4.75 ng/ml	0.16 ng/ml - 500 ng/ml
ELK030ES	Rat ADP(Adiponectin) ELISA Kit	Sandwich	4.75 ng/ml	7.81 ng/ml - 500 ng/ml
ELK031ES	Human FSH(Follicle Stimulating Hormone) ELISA Kit	Sandwich	0.016 mIU/ml	1.56 mIU/ml-100 mIU/ml
ELK032ES	Human Mlg(Monokine Induced By Interferon Gamma) ELISA Kit	Sandwich	15.7 pg/ml	78.1 pg/ml-5000 pg/ml
ELK033ES	Human VEGFA(Vascular Endothelial Growth Factor A) ELISA Kit	Sandwich	31 pg/ml	78.1 pg/ml-5000 pg/ml
ELK034ES	Human OPG(Osteoprotegerin) ELISA Kit	Sandwich	23.6 pg/ml	31.25 pg/mL - 2000 pg/mL
ELK035ES	Human NT-ProBNP(N-Terminal Pro-Brain Natriuretic Peptide) ELISA Kit	Sandwich	31.2 pg/ml	0.16 ng/ml-10 ng/ml
ELK036ES	Human PSMA(Prostate specific membrane antigen) ELISA Kit	Sandwich	0.165 ng/ml	0.625 ng/mL - 40 ng/mL
ELK037ES	Human hs-CRP(high sensitivity C Reactive Protein) ELISA Kit	Sandwich	21 pg/mL	78.1 pg/ml-5000 pg/ml
ELK038ES	Human NGAL(Neutrophil Gelatinase Associated Lipocalin) ELISA Kit	Sandwich	5.6 pg/ml	15.63-1000 pg/ml
ELK039ES	Human NLRP3(NLR Family, Pyrin Domain Containing Protein 3) ELISA Kit	Sandwich	37 pg/mL	0.16 ng/ml-10 ng/ml
ELK040ES	Human LpLA2(Lipoprotein Associated) ELISA Kit	Sandwich	0.78 ng/ml	0.78 ng/ml - 50 ng/ml

The difference between one-step ELISA kit and conventional ELISA kit

One step method

Operating time:1.5-2h
Standard dilution:Not required
Number of test samples:Up to 96
(standard strips are provided separately)
Sampling volume:50ul

Traditional three-step method

Operating time:3.5-4h
Standard dilution:Required
Number of detection samples: Up to 88
Sampling volume:100ul

★ Storage temperature and shelf life 4℃ (6 months) -20℃ (12 months) ★

More samples

An additional strip for the standard is provided. The 96T size can test a maximum of 96 samples, and 48T can test 48 samples.

Easy operation

All raw materials have been tested for thermal stability. No standard dilution step, which can reduce operating errors and improve the accuracy of the experiment.

High speed

Complete the entire experiment in 1.5 hours, making your scientific research one step faster.

Less sampling

50ul sampling, more tests can be completed with limited samples.

One-step indicator: (Keep expanding...)

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