

Indirect ELISA

All steps are carried out at room temperature unless otherwise indicated. Recipes for all solutions are listed at the end of the protocol.

Antigen Coating

1. Dilute purified antigens to a final concentration of 0.2 µg/ml in antigen-coating buff er and add 100µl of diluted antigen to each well of a 96-well ELISA plate.

2. Carefully cover the plate with adhesive plastic and incubate at 4°C overnight.

Blocking

3. Empty the wells of antigen-coating buff er and wash twice with 200 µl PBST buff er for 5 minutes each time.

4. Add 200 µl blocking buff er per well to block residual protein-binding sites. Cover the plate with adhesive plastic and incubate for 1-2 hour(s) at 37°C.

Antibody incubationg

5. Dilute your primary antibody of choice with blocking buff er in a series e.g. 1:500, 1:1000, 1:2000, 1:4000 and so on, empty the wells of blocking buff er and then add 100 µl of each dilution per well. Repeat in duplicate, or triplicate, for accuracy. Cover the plate with adhesive plastic and incubate for 1 hour at 37°C.

6. Empty the wells and wash 3 times with 200 µl PBST buff er for 5 minutes each time.

7. Dilute the HRP-conjugated secondary antibody with blocking buff er at an optimal concentration (a dilution factor within

1:10,000-1:100,000 is recommended) and add 100 µl of secondary antibody solution to each well. Cover the plate with adhesive plastic and incubate for 1 hour at 37°C.

8. Empty the wells and wash 3 times with 200 µl PBST buff er for 5 min each time.

Antibody incubationg

9. Add 100 µl TMB substrate (mix equal volumes of TMB buffer A and buffer B) to each well with a multichannel pipette. Color development should peak after 15 minutes, at which time it should be stopped by adding 100µl of 2M H₂SO₄ per well. Read absorbance at 450nm.

Solutions

Blocking buffer (100 ml) 5% non-fat dry milk 5g, add PBST buffer to 100ml				Antigen-coating buffer (1000ml) 100mM NaHCO₃ 8.4g, adjust pH to 9.6, add ddH₂O to 1000ml			
PBST buffer (1000ml)	TMB buffe	TMB buffer A (500ml)			TMB buffer B (500ml)		
10mM Na₂HPO₄	1.42g	NaAc•3H₂O)	13.6g		TMB (dissolved in 3ml DMSO)	0.15g
1.8mM NaH2PO4	0.22g	Citric Acid		1.6g		EDTA-2Na	0.2g
140mM NaCl	8.19g	30% H ₂ O ₂		0.3ml		Critic Acid	0.95g
0.2% Tween 20	2ml	Add ddH ₂ O	to §	500 ml		Glycerol	50ml
Adjust pH to 7.4						Add ddH₂O to 500 ml	
Add ddH₂O to 1000 ml							

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