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DIRECT ELISA PROTOCOL

This protocol is a recommendation only. Please optimize the procedure since experimental conditions can vary for different tissue samples.

COATING ANTIGEN TO PLATE

- I. Coat the wells of a 96 well plate with I00uL of the desired antigen diluted in bicarbonate/carbonate solution. Include a serial dilution of the antigen for analysis.
- 2. Cover plate with parafilm or plastic adhesive and incubate overnight at 4°C.
- 3. Remove coating solution and wash plate 2 times with 200uL PBS+0.05% Tween20. The solutions or washed are removed by flicking the plate over a sink. The remaining drops are removed by patting the plate on a paper towel.

BLOCKING

- 4. Block the remaining protein binding sites in the coated wells by adding 200uL of blocking buffer(1% milk/PBS or 1%BSA/PBS).
- 5. Cover the plate and incubate for 2 hours at room temperature.
- 6. Wash plate 2 times with 200uL PBST.

ANTIBODY INCUBATION

- 7. Add 100uL of antibody diluted in blocking buffer.
- 8. Cover the plate and incubate at room temperature for 2 hours.
- 9. Wash plate 2 times with 200uL PBST.

DETECTION

- 10. Add 100uL of the substrate solution per well.
- 11. After sufficient color development add 100uL of stop solution to the wells.
- 12. Read the absorbance of each well with a plate reader.

ANALYSIS

13. Prepare a standard curve from the data produced from the serial dilutions with concentration on the X-axis vs. absorbance on the Y-axis. Interpolate the concentration of the sample from this standard curve.