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# 🌐 ELISA (enzyme-linked immunosorbent assay) for α-Syn quantification

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We use this protocol and it's working

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## ABSTRACT

ELISA (enzyme-linked immunosorbent assay) for α-Syn quantification. Useful for analyses of alpha-Synuclein and related proteins in the context of synucleinopathy.

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- 1 Coat 384-well MaxiSorp plates (Nunc, Inc) with capturing antibody ( $\alpha$ -Syn, BD Biosciences, 610787) diluted 1:500 in coating buffer (NaHCO<sub>3</sub> with 0.2% NaN<sub>3</sub>, pH9.6) overnight at 4 °C.
- 2 Wash 3 times with PBS.0.05% Tween-20 (PBS-T).
- 3 Block for 1hr at 37 °C in blocking buffer (1.125% fish skin gelatin; PBS-T)
- 4 Load samples in duplicate into wells.
- 5 Incubate at RT for 2hr.
- 6 Add the desired antibody to the plate for 1 h at 37 °C
- 7 Wash 5 times with PBS-T.

- 8 Add ExtrAvidin phosphatase (Sigma, E2636) diluted in blocking buffer to wells. Incubate for 30 min at 37 °C.
- 9 Carry out colour development with fast-p-nitrophenyl phosphate (Sigma, N1891) at 405 nm every 2.5 min for up to 60 min.
- 10 Identify time point(s) where standards and sample dilutions are in the log phase.