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# ELISA Flex: Human IgA (ALP)

**3860-1AD-6 I**

ELISA Flex kit for quantitative determination of native human IgA in solution, e.g. serum/plasma samples or cell supernatants.

| The kit includes | | 3860-1AD-6 for 6 plates |
|---|---|---|
| Capture mAb: | MT57 (0.5 mg/ml) | 300 µl |
| Detection mAb: | MT20, ALP | 80 µl |
| Human IgA ELISA standard | | 1 vial |
| Standard reconstitution buffer A5 | | 1 ml |

To ensure total recovery of the stated quantity, vials have been overfilled.

## Shipping and storage

Shipped at ambient temperature. All reagents should be stored at 4-8 °C upon receipt, except the standard which should be stored at -20 °C. Antibodies are supplied in sterile-filtered PBS with sodium azide (0.02%). The detection antibody is supplied in 0.1 M Tris-buffer with 1% BSA and 0.002% Kathon CG. The expiry date indicates how long unopened products, stored according to instructions, are recommended for use.

# General and Preparations

## Specificity

The kit contains a matched pair of monoclonal antibodies (mAbs) specific for human IgA.

## Standard range

0.2-100 ng/ml

## Calibration

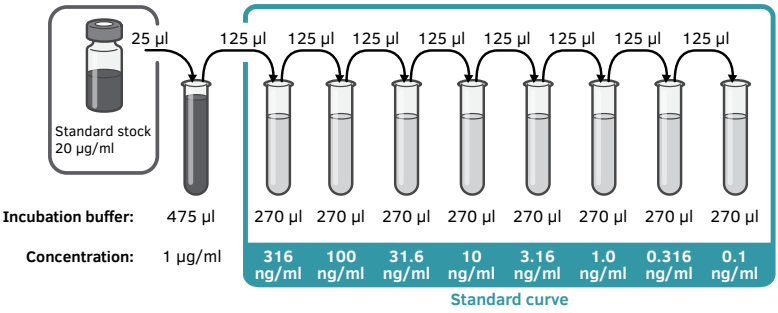
The ELISA standard has been calibrated against an international standard from the National Institute of Biological Standards and Control (NIBSC), Potters Bar, Hertfordshire EN6 3QG, UK. One µg of supplied standard equals 83 mU NIBSC-standard. Please note that the calibration is batch specific.

## Reconstitution of ELISA standard

Reconstitute the ELISA standard to a stock solution of 20 µg/ml by adding 0.5 ml of the standard reconstitution buffer. Allow the standard to dissolve for 5 minutes and mix thoroughly. The standard should be kept in aliquots at -20 °C. Avoid repeated freeze-thaw cycles.

## Preparation of standard curve

Prepare within 30 minutes of use. Volumes are sufficient for duplicates.



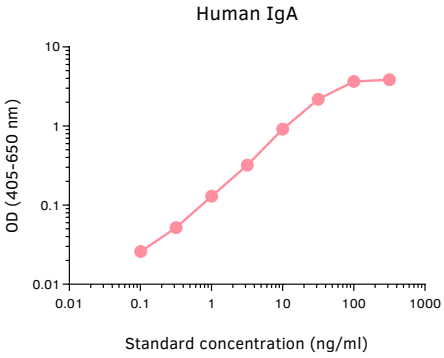
# Protocol

### Day 1

1. Add 100 µl/well of capture mAb MT57 diluted to 2 µg/ml in PBS, pH 7.4. Use high protein binding ELISA plates. Incubate overnight at 4-8 °C.

### Day 2

2. Empty the plate and add 200 µl/well of PBS with 0.05% Tween 20 and 0.1% BSA (incubation buffer) to block the plate. Incubate for 1 hour at room temperature.
3. Wash the plate 5 times with PBS containing 0.05% Tween 20 (300 µl/well).
4. Add 100 µl/well of samples or standards diluted in incubation buffer. Include assay background control, i.e. wells without standard. Incubate for 2 hours at room temperature.
5. Wash as above.
6. Add 100 µl/well of detection mAb MT20-ALP diluted 1:1000 in incubation buffer. Incubate for
1 hour at room temperature.
7. Wash as above.
8. Add 100 µl/well of pNPP substrate (product code: 3652-P10) and incubate the plate for approximately 60 minutes.
9. Measure the optical density in an ELISA reader at 405 nm. Preferably use a reader capable of subtracting a reference wavelength of between 570 and 650 nm. Representative standard curve shown below.



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Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the standards ISO 9001:2015 & ISO 13485:2016.



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