Medix Biochemica

**Product specification**
**ANTIBODY**
2025-11-13

# Anti-h Amyloid beta (42) R13602 SPTN-5

## Product overview

| | |
|---|---|
| **Catalog number** | 140070 |
| **Specificity** | Antibody recognizes amyloid beta peptide 1-42 |
| **Description** | Recombinant mouse antibody, cultured *in vitro* under conditions free from animal-derived components. |
| **Product buffer solution** | 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % $NaN_3$ as a preservative |
| **Shelf life and storage** | Unspecified, storage at 2–8 °C |
| **Subclass** | $IgG_1$ |
| **Analyte description** | Altered levels of amyloid beta are commonly associated with neurodegenerative diseases, such as Alzheimer's disease. It is one of the primary components of amyloid plaques found in the brain of affected individuals. |

## Parameters tested on each lot

| | |
|---|---|
| **Product appearance** | Liquid, may turn slightly opaque during storage |
| **Product concentration** | 5.0 mg/ml (+/-10 %) (A280 nm, 1 mg/ml, 1 cm = 1.4) |
| **Immunoreactivity** | 80–120 % compared to the reference sample in an FIA test |
| **IEF Profile** | 6.9–7.8 |
| **Purity** | ≥ 95 % |

## Kinetic parameters

| | |
|---|---|
| **Association rate constant** | $1.5 \times 10^5$ 1/Ms |
| **Dissociation rate constant** | $5.4 \times 10^{-5}$ 1/s |
| **Affinity constant** | $K_A = 2.9 \times 10^9$ 1/M; $K_D = 2.9 \times 10^{-10}$ M (= 0.29 nM) |
| **Determination method** | BLI (Octet RED96e) |
| **Determination antigen** | N-terminally biot. Amyloid beta peptide 1-42, Agro-Bio (Cat N/A) |

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**Cross-reactivities**

Minor cross-reaction to Amyloid beta 1-40 and 1-43 peptides.

**Epitope**

Includes amino acids 41-42.

**Pair recommendations**

| | | DETECTION | |
|---|---|---|---|
| | | R13602 | R13621 |
| CAPTURE | R13602 | - | + |
| | R13621 | - | - |

Following pair is recommended for the detection of amyloid beta 1-42:
FIA: R13602 (capture) – R13621 (detection)

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

**Platforms tested**

FIA

**Antigens tested**

N/D

**Product stability**

| TEMPERATURE, TIME | RESULT |
|---|---|
| -70 °C, 21 days | OK |
| -20 °C, 21 days | OK |
| +4 °C, 21 days | OK |
| +35 °C, 21 days | Minor charge alterations |
| +45 °C, 7 days | Minor charge alterations |

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

**Miscellaneous**

Comparable to mAb clone 21F12.

**References**

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