

Anti-h NMP22 R12510 SPTN-5

Product overview

| | |
|--------------------------------|--|
| Catalog number | 140056 |
| Specificity | Antibody recognizes human nuclear matrix protein 22 (NMP22) |
| Description | Recombinant mouse antibody, cultured <i>in vitro</i> 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 | NMP22 is part of the nuclear mitotic apparatus which is responsible for the distribution of chromatin to daughter cells during mitosis. NMP22 can be used as tumor marker. Particularly, the levels of NMP22 are elevated in bladder cancer and it can be used in the early diagnosing and monitoring of bladder cancer. |

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 = 1.7) |
| Immunoreactivity | 80–120 % compared to the reference sample in an FIA test |
| IEF Profile | 6.5–6.7 |
| Purity | ≥ 95 % |

Kinetic parameters

| | |
|-----------------------------------|---|
| Association rate constant | 1.2 x 10 ⁵ 1/Ms |
| Dissociation rate constant | Does not dissociate under conditions used |
| Affinity constant | Not applicable (N/A) |
| Determination method | BLI (Octet RED96e) |
| Determination antigen | Recombinant Nuclear Mitotic Apparatus Protein 1, Cloud-Clone Corp. (Cat RPC332Hu02) |

**Legal disclaimer**

Cross-reactivities Not Determined (N/D)

Epitope Within amino acids 1-212 of NMP22

Pair recommendations

| | | DETECTION | | | |
|---------|--------|-----------|--------|--------|--------|
| | | R12501 | R12508 | R12509 | R12510 |
| CAPTURE | R12501 | - | + | + | + |
| | R12508 | - | - | + | + |
| | R12509 | + | + | + | + |
| | R12510 | + | + | + | + |

Following pairs are especially recommended for the below mentioned assays:

CLIA: R12508 (capture) – R12510 (detection) and R12510 (capture) – R12510 (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, CLIA

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 -

References -



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