

## Anti-h NMP22 R12501 SPTN-5

### Product overview

Catalog number	140053
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 <sub>3</sub> as a preservative
Shelf life and storage	Unspecified, storage at 2–8 °C
Subclass	IgG <sub>1</sub>
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 = 1.5)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.9–7.6
Purity	≥ 95 %

### Kinetic parameters

Association rate constant	$2.3 \times 10^4$ 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 33-55 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

-70 °C, 21 days

-20 °C, 21 days

+4 °C, 21 days

+35 °C, 21 days

+45 °C, 7 days

##### RESULT

OK

OK

OK

Minor charge alterations

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

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#### References

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#### Legal disclaimer