

## Anti-h KIM-1 10103 SPTN-5

### Product overview

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<b>Catalog number</b>	100740
<b>Specificity</b>	Antibody recognizes human kidney injury molecule 1
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
<b>Product buffer solution</b>	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	Unspecified, storage at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	Kidney injury molecule 1 (KIM-1), also known as T-cell immunoglobulin mucin receptor 1 (TIM-1) or Hepatitis A virus cellular receptor 1 (HAVcr-1) is a type I transmembrane protein expressed in the renal tubular cells. KIM-1 is released after tubular injury and can be used in the diagnosis of acute kidney injury (AKI).

### Parameters tested on each lot

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<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Immunoreactivity</b>	80–120 % compared to the reference sample in an FIA test
<b>IEF Profile</b>	6.3–7.2
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	$4.8 \times 10^5$ 1/Ms
<b>Dissociation rate constant</b>	$1.3 \times 10^{-4}$ 1/s
<b>Affinity constant</b>	$K_A = 3.8 \times 10^9$ 1/M $K_D = 3.3 \times 10^{-10}$ M (= 0.33 nM)
<b>Determination method</b>	BLI (Octet RED96e)
<b>Determination antigen</b>	Human TIM-1/KIM-1, Acro Biosystems (Cat KI1-H52H3)

**Legal disclaimer**

**Cross-reactivities** Does not recognize TIM-3/HAVcr-2/KIM-3 or TIM-4/TIMD-4.

**Epitope** Not determined (N/D)

**Pair recommendations**

		DETECTION		
		10101	10102	10103
CAPTURE	10101	-	-	-
	10102	+	-	-
	10103	+	-	-

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, 7 days	OK
	+35 °C, 21 days	Reduced immunoreactivity
	+45 °C, 3 days	OK
	+45 °C, 7 days	Reduced immunoreactivity

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** -



**Legal disclaimer**