



## **Product specifications**

Name Anti-h KIM-1 10101 SPTN-5

Specificity Antibody recognizes human kidney injury molecule 1

Description Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived

components

Product code 100738

Product buffer solution 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN $_{\rm 3}$  as a preservative

Shelf life and storage Unspecified, storage at 2-8 °C

Subclass  $IgG_1$ 

Analyte description 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

Product appearance Liquid, may turn slightly opaque during storage

Product concentration 5.0 mg/ml (+/- 10 %)

**Immunoreactivity** 80-120 % compared to the reference sample in an FIA test

**IEF Profile** 6.2-6.8

≥ 95 % Purity

## Kinetic parameters

Association rate constant 4.5 x 105 1/Ms

Dissociation rate constant 2.9 x 10<sup>-4</sup> 1/s

Affinity constant  $K_A = 1.6 \times 10^9 \text{ 1/M}$ 

 $K_D = 6.7 \times 10^{-10} M (= 0.67 nM)$ 

Determination method BLI (Octet RED96e)

Determination antigen Human TIM-1/KIM-1, Acro Biosystems

(Cat KI1-H52H3)





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

Epitope N/D

Pair recommendations

		DETECTION			
		10101	10102	10103	10106
CAPTURE	10101	-	-	-	-
	10102	+	-	-	-
	10103	+	-	-	-
	10106	+	-	-	_

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 Minor charge alterations +45 °C, 3 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 -