

## Anti-h CD25 14001 SPTN-5

### Product overview

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<b>Catalog number</b>	101014
<b>Specificity</b>	Antibody recognizes Interleukin 2 Receptor $\alpha$ chain (IL-2 Ra), a 55 kDa protein
<b>Description</b>	Monoclonal 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>	CD25 is a protein known as the interleukin-2 receptor $\alpha$ chain (IL-2R $\alpha$ ). It is found on the surface of certain immune cells, such as activated T cells, regulatory T cells (Tregs), and some B cells. Its main role is to bind interleukin-2 (IL-2), a cytokine that promotes the growth and activation of immune cells. Because CD25 is highly expressed on Tregs and activated immune cells, it is often used as a marker in immunology and oncology.

### 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>	6.0–7.0
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	$5.5 \times 10^5$ 1/Ms
<b>Dissociation rate constant</b>	$9.3 \times 10^{-4}$ 1/s
<b>Affinity constant</b>	$K_A = 5.9 \times 10^8$ 1/M; $K_D = 2.9 \times 10^{-9}$ M (= 2.9 nM)
<b>Determination method</b>	BLI (Octet RED96e)
<b>Determination antigen</b>	Recombinant CD25 protein (AA 22-213) (His-Avi Tag), Antibodies Online (Cat ABIN7274199)



#### Legal disclaimer

**Cross-reactivities** N/D

**Epitope** N/D

**Pair recommendations**

		DETECTION	
		14001	R14002
CAPTURE	14001	+	+
	R14002	+	-

Following pairs are especially recommended for the below mentioned assays:

ELISA: R14002 (capture) – 14001 (detection)

LF: 14001 (membrane) – R14002 (particles), R14002 – 14001

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** LF, ELISA

**Antigens tested** N/D

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 21 days	OK. Charge alteration.
+45 °C, 7 days	OK. Charge alteration.

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** This product was previously available with Clone code B-F2. It has been produced using the same original mouse monoclonal hybridoma cell line.

**References** -



**Legal disclaimer**