

Anti-h CD25 R14002 SPTN-5

Product overview

Catalog number	140079
Specificity	Antibody recognizes Interleukin 2 Receptor α chain (IL-2 Ra), a 55 kDa protein
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	CD25 is a protein known as the interleukin-2 receptor α chain (IL-2R α). 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

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %) (A280 nm, 1 mg/ml, 1 cm = 1.4)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.8–8.4
Purity	≥ 95 %

Kinetic parameters

Association rate constant	2.6×10^5 1/Ms
Dissociation rate constant	2.6×10^{-4} 1/s
Affinity constant	$K_A = 1.0 \times 10^9$ 1/M; $K_D = 1.1 \times 10^{-9}$ M (= 1.1 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	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

Product stability	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-G3. It has been produced using the same original mouse monoclonal hybridoma cell line.

References -

