

## Anti-h IL-6 2703 SPTN-5

### Product overview

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<b>Catalog number</b>	100328
<b>Specificity</b>	Antibody recognizes human interleukin-6 (IL-6)
<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>	24 months from manufacturing at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	IL-6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. IL-6 is relevant to many disease processes such as diabetes, atherosclerosis, depression, Alzheimer's Disease, systemic lupus erythematosus, cancer, and rheumatoid arthritis.

### 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>	6.3–7.6
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	1.0 x 10 <sup>5</sup> 1/Ms	6.1 x 10 <sup>6</sup> 1/Ms
<b>Dissociation rate constant</b>	5.6 x 10 <sup>-5</sup> 1/s	4.8 x 10 <sup>-5</sup> 1/s
<b>Affinity constant</b>	K <sub>A</sub> = 1.8 x 10 <sup>9</sup> 1/M K <sub>D</sub> = 5.6 x 10 <sup>-10</sup> M (= 0.56 nM)	K <sub>A</sub> = 1.3 x 10 <sup>11</sup> 1/M N/A K <sub>D</sub> = 7.7 x 10 <sup>-11</sup> M (= 0.08 nM)
<b>Determination method</b>	SPR analysis (ProteOn XPR36)	BLI (Octet RED96e)
<b>Determination antigen</b>	IL-6, Creative Biomart (Cat IL6-12H)	IL-6, Medix Biochemica (Cat 341-36)



#### Legal disclaimer

**Cross-reactivities** Not Determined (N/D)

**Epitope** N/D

**Pair recommendations**

		DETECTION						
		2703	2704	2706	2707	B-E4	B-F6	B-E8
CAPTURE	2703	-	+	-	+	+	+	+
	2704	+	-	+	+	+	+	+
	2706	-	-	-	+	+	-	-
	2707	+	+	+	-	+	+	+
	B-E4	-	+	-	+	-	-	+
	B-F6	-	-	-	-	+	-	-
	B-E8	-	+	-	+	+	-	-

Following pairs are especially recommended for the below mentioned assays:

FIA: 2704 (capture) – B-E8 (detection), 2704 – B-E4, 2707 – B-E8 and 2707 – B-E4

LF: 2704 (membrane) – 2707 (particles), 2707 – 2704, B-E8 – 2704, B-E4 – 2704, B-E8 – 2707 and B-E4 – 2707

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, LF

**Antigens tested** Recombinant IL-6 antigen, Medix Biochemica 710015, 710039, 710038 and 341-36.

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+25 °C, 21 days	OK
+35 °C, 21 days	OK
+45 °C, 7 days	OK

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**