



## **Product specifications**

Name	Anti-h IL-6 2703 SPTN-5
Specificity	Antibody recognizes human interleukin-6 (IL-6)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100328
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN $_{3}$ as a preservative
Shelf life and storage	24 months from manufacturing at 2–8 °C
Subclass	IgG1
Analyte description	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

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	6.3–7.6
Purity	≥ 95 %

## **Kinetic parameters**

Association rate constant	1.0 x 10 <sup>s</sup> 1/Ms	6.1 x 10⁰ 1/Ms
Dissociation rate constant	5.6 x 10 <sup>-s</sup> 1/s	4.8 x 10 <sup>-5</sup> 1/s
Affinity constant	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 K <sub>D</sub> = 7.7 x 10 <sup>-11</sup> M (=0.08 nM)
Determination method	SPR analysis (ProteOn XPR36)	BLI (Octet RED96e)
Determination antigen	IL-6, Creative Biomart (Cat IL6-12H, Lot 714033)	IL-6, Lee Biosolutions (Cat 341-36, Lot 10E5837)

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## **Cross-reactivities**

Not Determined (N/D)

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N/D

Pair recommendations

		DETECTION			
		2703	2704	2706	2707
APTURE	2703	-	+	-	+
	2704	+	-	+	+
CAPI	2706	-	-	-	+
	2707	+	-	+	-

Following pairs are especially recommended for the below mentioned assays: FIA: 2706 (capture) – 2707 (detection) and 2703 – 2707 LF: 2704 (membrane) – 2703 (particles), 2704 – 2707, 2704 – 2706 and 2703 – 2704

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 recombinant IL-6 antigen Lee Biosolutions 341-36.		
Product stability	TEMPERATURE, TIME	RESULT	
	-70 °C, 21 days	ОК	
	-20 °C, 21 days	ОК	
	+4 °C, 21 days	OK	
	+25 °C, 21 days	OK	
	+35 °C, 21 days	OK	
	+45 °C, 7 days	ОК	
	affect the antigen binding, charge or comp	ct buffer to see whether different temperatures position of the antibody. Please note that the shelf time stability testing at 2–8 °C in the product	
Miscellaneous	-		

References

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