

## Anti-h IL-6 2709 SPTN-5

### Product overview

<b>Catalog number</b>	101006
<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>	12 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

<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>	5.8–6.7
<b>Purity</b>	≥ 95 %

### Kinetic parameters

<b>Association rate constant</b>	$4.4 \times 10^5$ 1/Ms
<b>Dissociation rate constant</b>	$1.7 \times 10^{-5}$ 1/s
<b>Affinity constant</b>	$K_A = 2.6 \times 10^{10}$ 1/M; $K_D = 4.0 \times 10^{-11}$ M (= 0,04 nM)
<b>Determination method</b>	BLI (Octet RED96e)
<b>Determination antigen</b>	Interleukin-6 (IL-6) Antigen, Medix Biochemica (Cat 341-36)



#### Legal disclaimer

**Cross-reactivities** N/D

**Epitope** N/D

**Pair recommendations**

		DETECTION						
		2703	2704	2706	2707	2708	2709	B-F6
CAPTURE	2703	-	+	-	+	+	+	+
	2704	+	-	+	+	+	+	+
	2706	-	-	-	+	+	-	-
	2707	+	+	+	-	+	+	+
	2708	-	+	-	+	-	+	-
	2709	-	+	-	+	+	-	-
	B-F6	-	-	-	-	+	-	-

Following pairs are especially recommended for the below mentioned assays:  
FIA: 2704 (capture) – 2709 (detection), 2704 – 2708, 2707 – 2709 and 2707 – 2708

LF: 2704 (membrane) – 2707 (particles), 2707 – 2704, 2708 – 2704, 2708 – 2707, 2709 – 2704, and 2709 – 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, FC, functional assay

**Antigens tested** Recombinant IL-6 antigen, Medix Biochemica 341-36 and 715.H01.

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.

**Miscellaneous** This product was previously available with Clone code B-E8. It has been produced using the same original mouse monoclonal hybridoma cell line.

**References** -

