Medix Biochemica

Product specification
ANTIBODY
2025-04-23

Anti-h IL-6 2709 SPTN-5

Product overview

Catalog number	101006
Specificity	Antibody recognizes human interleukin 6 (IL-6)
Description	Monoclonal mouse antibody, cultured *in vitro* 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	12 months from manufacturing at 2–8 °C
Subclass	IgG_1
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	5.8–6.7
Purity	≥ 95 %

Kinetic parameters

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

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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.

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.

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 -

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