

## Anti-h IP-10 14302 SPTN-5

### Product overview

<b>Catalog number</b>	101019
<b>Specificity</b>	Antibody recognizes recognises both natural and recombinant IP-10
<b>Description</b>	Monoclonal 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>	Unspecified, storage at 2–8 °C
<b>Subclass</b>	IgG <sub>2a</sub>
<b>Analyte description</b>	IP-10 (also called CXCL10) is a chemokine, a signaling protein that attracts immune cells to sites of inflammation or infection. It is produced by various cells (like monocytes, endothelial cells, and fibroblasts) in response to interferon-gamma (IFN-γ). Its main role is to act as a chemoattractant for T cells, NK cells, and other immune cells, and it is important in immune response, inflammation, and some diseases (autoimmune disorders, infections, cancer).

### 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>	6.1–7.0
<b>Purity</b>	≥ 95 %

### Kinetic parameters

<b>Association rate constant</b>	$6.6 \times 10^5$ 1/Ms
<b>Dissociation rate constant</b>	$4.3 \times 10^{-5}$ 1/s
<b>Affinity constant</b>	$K_A = 1.5 \times 10^{10}$ 1/M; $K_D = 6.6 \times 10^{-11}$ M (= 0.066 nM)
<b>Determination method</b>	BLI (Octet RED96e)
<b>Determination antigen</b>	Recombinant Human IP-10 (CXCL10), PeproTech (Cat 300-12)



#### Legal disclaimer

**Cross-reactivities** N/D

**Epitope** N/D

**Pair recommendations**

		DETECTION	
		14301	14302
CAPTURE	14301	-	+
	14302	+	-

Following pairs are especially recommended for the below mentioned assays:

FIA: 14301 (capture) – 14302 (detection), 14302 – 14301

LF: 14301 (membrane) – 14302 (particles), 14302 – 14301

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** N/D

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 7 days	OK
+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-C55. It has been produced using the same original mouse monoclonal hybridoma cell line.

**References** van Hooij, A. et al., Sci Rep. 2018 Dec 18;8(1):17920

