

## Monoclonal Anti-human Interleukin-10

**Product reference: DDX0320**

### Description:

Interleukin 10 is a 18kDa protein consisting of 178 residues that is primarily secreted by TH2 clones but also by activated CD4+ and CD8+ T cells, macrophages, natural killer cells and B cells. This anti-inflammatory cytokine both suppresses cytokine production by TH1 clones and inhibits the response of cytokine targeted cells. IL-10 regulates immune mediated inflammation by inhibiting pro-inflammatory cytokine production by macrophages, including TNF- $\alpha$ , IL-1, IL-12 and IFN- $\gamma$ . Moreover, it can inhibit accessory functions of macrophages in T cell activation which can inhibit T cell-mediated inflammation. IL-10 has also been shown to have a proliferative effect on B cells, thymocytes and mast cells, as well as promoting B cell differentiation into antibody producing cells. 12G8 monoclonal antibody was obtained after rat immunization with human IL10-transfected Cos7 cells. (*Burdin et al, 1993, 177 (2):295-304; Abrams JS et al, 1992, Immunol.Rev., 127:5 ; Gotlieb WH et al, 1992, Cytokine, 4:385-390; Yssel H et al, 1992, J.Immunol, 149:2378-2384*)

<b>Clone:</b>	<b>12G8</b>
<b>Species:</b>	rat
<b>Specificity:</b>	Human Interleukin-10
<b>Immunogen:</b>	Human interleukin-10-transfected Cos7 cells
<b>Species cross-reactivity:</b>	Not tested
<b>Isotype:</b>	IgG2a
<b>Formulation/size:</b>	<b>Purified:</b> 100 $\mu$ g in 200 $\mu$ l / 50 $\mu$ g in 100 $\mu$ l Tris-NaCl pH 8 <b>Coupled:</b> 100 $\mu$ g in 200 $\mu$ l / 50 $\mu$ g in 100 $\mu$ l Tris PBS 50% glycerol

### Available formats:

Reference N°		Format	Application tested
50 $\mu$ g	100 $\mu$ g		
DDX0320P-50	DDX0320P-100	Purified	ELISA, IHC, Western-Blot, Intracellular Flow cytometry
DDX0320A488-50	DDX0320A488-100	Alexa@488 ( <i>on request</i> )	IHC, Intracellular Flow cytometry
DDX0320A546-50	DDX0320A546-100	Alexa@546 ( <i>on request</i> )	IHC, Intracellular Flow cytometry
DDX0320A647-50	DDX0320A647-100	Alexa@647 ( <i>on request</i> )	IHC, Intracellular Flow cytometry

**Usage recommendation:**

- \*This monoclonal antibody may be used between 1-10  $\mu$ g/ml.
- \*Optimal dilution should be determined by each laboratory for each application.
- \*Coupled antibody: to maintain RT before use.

**Aliquot storage conditions:** -20°C. **KEEP CONTENTS STERILE: no preservative.**  
**Purified antibodies:** avoid repeated freeze/thaw cycles.  
**Coupled antibodies:** glycerol protects from freezing.

**Not for use in Humans. For research purpose only**