

# Monoclonal Anti-human CD303

**Product reference: DDX0042**

## Description

### CD303/ DLEC/ BDCA-2 / CLECSF7 / CLECSF11

CD303 is a calcium dependent type II lectin also known as Blood-Dendritic-Cell-Antigen-2 specifically expressed by human plasmacytoid dendritic cells (pDC). CD303/BDCA-2 is a 25 kDa type II membrane glycoprotein with a single carbohydrate recognition domain (CRD) predicting mannose-type specificity. Protein expression is restricted to the immature plasmacytoid dendritic cells subset. BDCA-2 is involved in ligand internalization, processing and presentation, as well as in inhibition of IFN- $\alpha/\beta$  synthesis.

(Treilleux I. *et al*, 2004, *Clin. Canc. Res.*, 10:7466; Dzionek A. *et al.*, 2000, *J. Immunol.*, 165, 6037; Dzionek A. *et al*, 2001, *J. Exp. Med.* 194, 1823-1834)

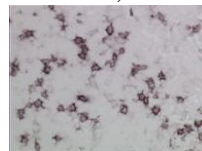
<b>Clone:</b>	<b>110H7.05</b>
<b>Species:</b>	mouse
<b>Specificity:</b>	human CD303
<b>Immunogen:</b>	human recombinant BDCA-2 like protein
<b>Species cross- reactivity:</b>	nd
<b>Isotype:</b>	IgG1
<b>Purification:</b>	QMA Hyper D ion exchange chromatography
<b>Formulation/size:</b>	<b>Purified:</b> 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 PBS 50% glycerol

**Available formats:** (other clones available on request)

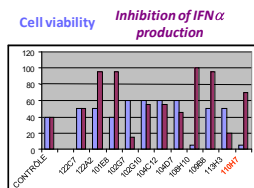
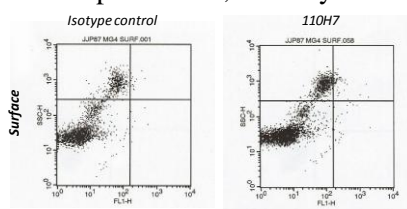
Reference N°		Format	Application tested
50 $\mu$ g	100 $\mu$ g		
DDX0042P-50	DDX0042P-100	Purified	Surface Flow cytometry, IHC Bouin paraffin, inhibition IFN- $\alpha$ secretion <i>via</i> cytotoxic effect
DDX0042A488-50	DDX0042A488-100	Alexa-fluor®488	Flow cytometry, IF ( <i>on request</i> )
DDX0042A546-50	DDX0042A546-100	Alexa- fluor®546	Flow cytometry, IF ( <i>on request</i> )
DDX0042A647-50	DDX0042A647-100	Alexa- fluor®647	Flow cytometry ( <i>on request</i> )
DDX0042B-50	DDX0042B-100	Biotin	( <i>on request</i> )

## Applications tested:

IHC, inhibition of IFN $\alpha$  production, Flow cytometry



IHC staining of Bouin paraffin-embedded human lymph node section with 110H7



This monoclonal antibody was added to enriched pDCs cultured in presence of CPG 2216 during 24h and viability and IFN- $\alpha$  secretion were measured

## Usage recommendation:

- \*This monoclonal antibody may be used between 5-25  $\mu$ 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**