

## Monoclonal Anti-human CD303

**Product reference: DDX0040**

### Description

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

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 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. CD303 is involved in ligand internalization, processing and presentation, as well as in inhibition of IFN- $\alpha/\beta$  synthesis.

(Fernandes MJ et al, 1999, *Cancer Res*, 1 ;59(11)2709 ;Dzionek A et al, 2000, *J.Immunol*, 165, 6037 ; Dzionek A et al, 2001, *J.Exp.Med*, 194,1823 ; Treilleux I. et al, 2004, *Clin. Canc. Res.*, 10:7466)

**Clone:** 108H10.03

**Species:** mouse

**Specificity:** human CD303

**Immunogen:** human recombinant BDCA-2 like protein

**Species cross-reactivity:** Dog, swine

**Isotype:** IgM

**Purification:** QMA Hyper D ion exchange chromatography

**Formulation/size:** **Purified:** 100  $\mu$ g in 200  $\mu$ l / 50  $\mu$ g in 100  $\mu$ l Tris-NaCl pH 8

**Coupled:** 100  $\mu$ g in 200 $\mu$ l / 50  $\mu$ g in 100  $\mu$ l PBS 50% glycerol

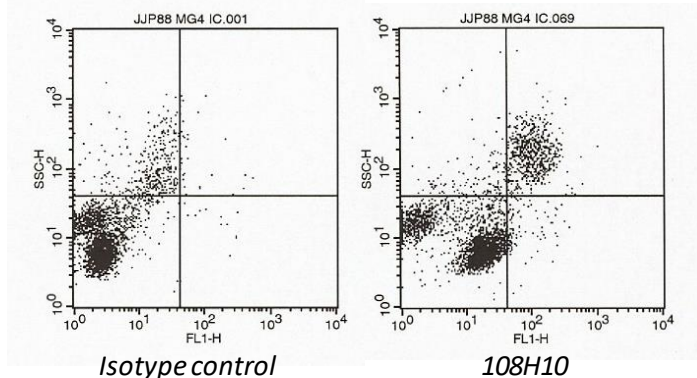
**Available formats:**

Reference N°	Format	Application tested
100 $\mu$ g		
DDX0040P-100	Purified	Bouin Paraffin, IHC, inhibition IFN-alpha secretion, induces PDC apoptosis
DDX0040A488-100	Alexa-fluor®488	Surface Flow cytometry, IF
DDX0040A546-100	Alexa- fluor®546	IF
DDX0040A647-100	Alexa- fluor®647	Surface Flow cytometry
DDX0040B-100	Biotin	IHC

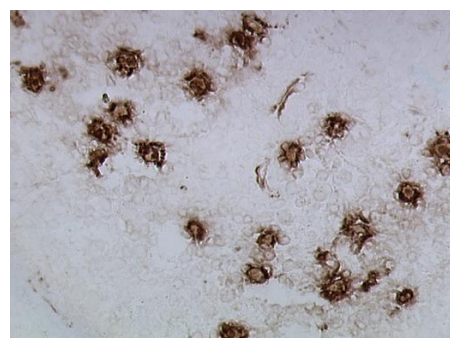
*Other clones available on request*

### Applications tested:

Intracellular and surface FACS staining, IHC



*Intracellular FACS staining of monocyte-derived (GM+IL4) Dcs*



*Human spleen frozen section stained with 108H10 at 10 $\mu$ g/ml*

### Usage recommendation:

\*This monoclonal antibody may be used between 5-20  $\mu$ 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**