

## Monoclonal Anti-human CD23

**Product reference: DDX0600**

### Description

CD23, also known as Fc epsilon RII, or FcεRII, is the "low affinity" receptor for IgE, an antibody isotype involved in allergy and resistance to parasites and is important in regulation of IgE levels. Human rIL-4 is able to induce the expression of low-affinity receptors for IgE (Fc epsilon RL/CD23) on resting B lymphocytes, as determined by the binding of either the anti Fc epsilon RL/CD23-specific mAb 25 or IgE. Stimulation of B cells with insolubilized anti-IgM antibody increases the number of cells expressing Fc epsilon RL/CD23 upon culturing with IL-4 and enhances the level of Fc epsilon RL/CD23 expression on these cells. Fc epsilon RL/CD23 induction is specific for IL-4 since IL-1 alpha, IL-2, IFN-gamma, B cell-derived B cell growth factor (BCGF), and a low-molecular-weight BCGF were ineffective. IFN-gamma strongly inhibited the induction of Fc epsilon RL/CD23 by IL-4. CD23 is a 45 kDa transmembrane glycoprotein associated with MHC Class II antigen, which belongs to the C-type lectin family. Expression of CD23 by B lymphocytes is up-regulated following mitogen or antigen activation. Soluble forms of CD23 are generated by proteolytic cleavage of the membrane molecule. (*Defrance T. et al., J Exp Med, 1987,165, 1459 ; Bonnefoy J-Y., et al., 1996, Eur.Respir.J., 9, 635-665*).

<b>Clone:</b>	<b>9p25</b>
<b>Species:</b>	mouse
<b>Specificity:</b>	human B lymphocytes
<b>Immunogen:</b>	EBV transformed lymphoblastoid cell line
<b>Isotype:</b>	IgG1
<b>Purification:</b>	QMA Hyper D ion exchange chromatography
<b>Formulation/size:</b>	<b>Purified:</b> 100 µg in 200µl / 50 µg in 100 µl Tris-NaCl pH 8

### Available formats:

Reference		Format	Application tested
50µg	100µg		
DDX0600P-50	DDX0600P-100	purified	Flow Cytometry, study of IgE binding to B cells

**Applications tested**      flow cytometry

**Usage recommendation:**      \*This monoclonal antibody may be used between 5-20 µg/ml  
    \*Optimal dilution should be determined by each laboratory for each application  
    \*Coupled antibody: to maintain RT before using

**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**