

**PRODUCT INFORMATION**

<b>Clone ID</b>	DM31
<b>Target</b>	CD123
<b>Synonyms</b>	IL3R; IL3RA; IL-3Ra; IL-3R-alpha; IL3RAY; IL3RX; IL3RY; CD123 antigen; CD123; hIL3Ra; hIL-3Ra; MGC34174; IL-3 R alpha
<b>Host Species</b>	Rabbit
<b>Description</b>	Anti-CD123 antibody(DM31); Rabbit mAb
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P26951
<b>IgG type</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Reactivity</b>	Human
<b>Applications</b>	ELISA; Flow Cyt
<b>Recommended Dilutions</b>	ELISA 1:5000-10000; Flow Cyt 1:100
<b>Purification</b>	Purified from cell culture supernatant by affinity chromatography
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage &amp; Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Background</b>	Interleukin 3 receptor alpha (low affinity) (IL3RA); also known as CD123 (Cluster of Differentiation 123) is a 70-kD glycoprotein member of the hematopoietin receptor superfamily. This protein associates with a beta subunit common to the receptors for IL-5 and granulocyte-macrophage colony-stimulating factor (GM-CSF) to form a high-affinity receptor for IL-3. The interleukin-3 receptor a chain (CD123) has been identified as a potential immunotherapeutic target because it is overexpressed in AML compared with normal hematopoietic stem cells.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



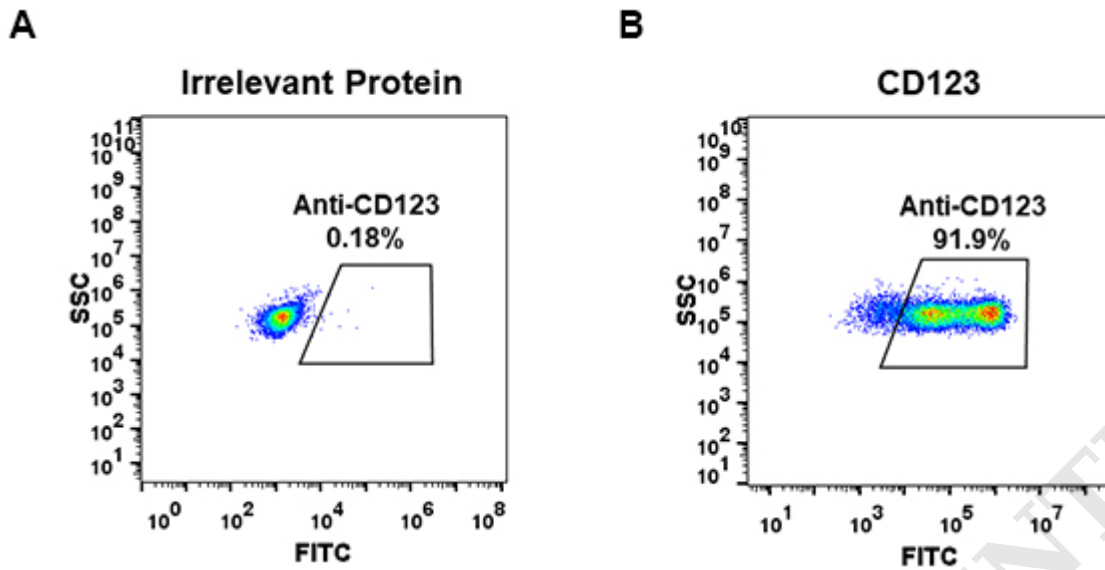


Figure 1. Expi 293 cell line transfected with irrelevant protein (left) and human CD123(right) were surface stained with Rabbit anti-CD123 monoclonal antibody  $1\mu\text{g/ml}$  ( clone: DM31) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.

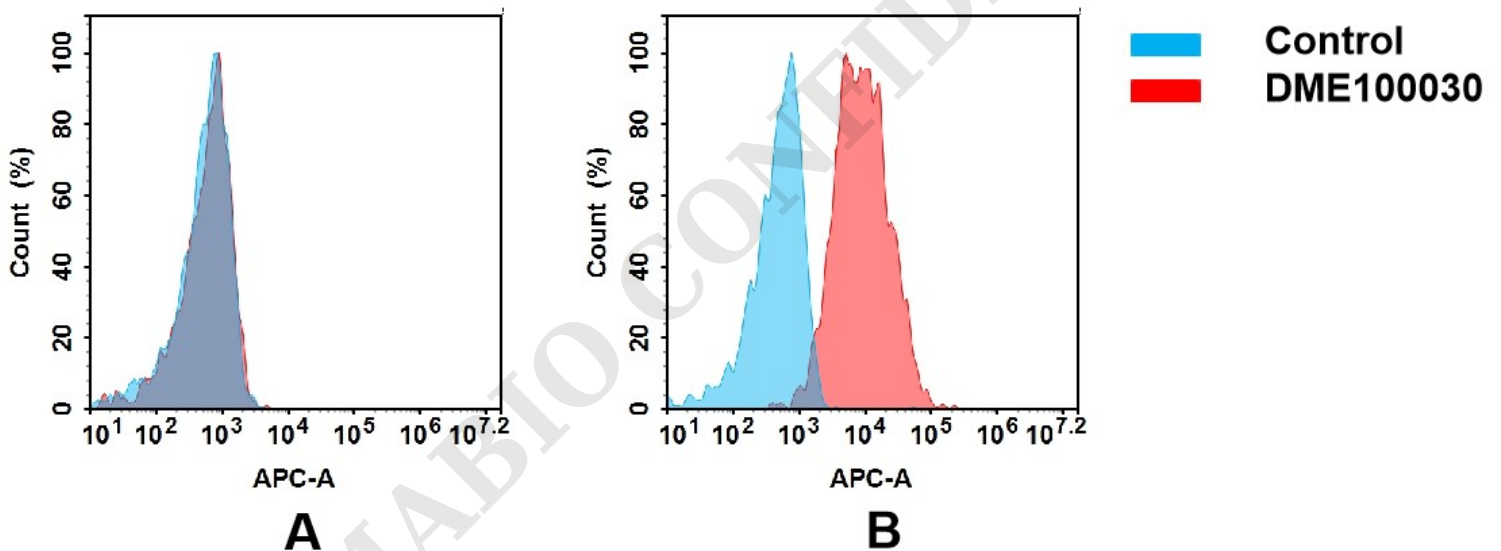


Figure 2. Flow cytometry analysis of antigen binding of rabbit anti-human CD123 mAb(DME100030).

(A) DME100030 does not bind to CHO-S cells that do not express CD123.

(B) A clear peak shift of DME100030 was seen compared to the control when incubated with CD123-expressing THP-1 cells, indicating strong binding of DME100030 to CD123. Antibodies were incubated at  $5\mu\text{g/mL}$ .

