

**PRODUCT INFORMATION**

<b>Clone ID</b>	DMC721
<b>Target</b>	IGF-1R
<b>Synonyms</b>	CD221; IGFIR; IGFR; JTK13
<b>Host Species</b>	Rabbit
<b>Description</b>	Anti-IGF-1R antibody(DMC721); IgG1 Chimeric mAb
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P08069
<b>IgG type</b>	Rabbit/Human Fc chimeric IgG1
<b>Clonality</b>	Monoclonal
<b>Reactivity</b>	Human
<b>Applications</b>	Flow Cyt
<b>Recommended Dilutions</b>	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>	This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2014]
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



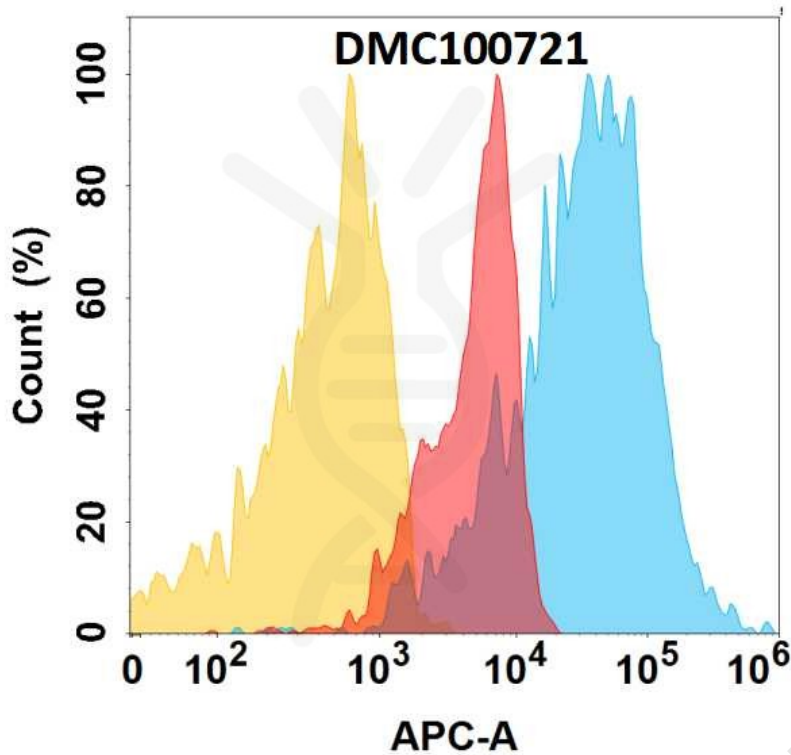


Figure 1. IGF-1R protein is highly expressed on the surface of Expi293 cell membrane. Flow cytometry analysis with Anti-IGF-1R (DMC721) mAb on Expi293 cells transfected with human IGF-1R (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram), and Isotype antibody on Expi293 transfected with irrelevant protein (Orange histogram).

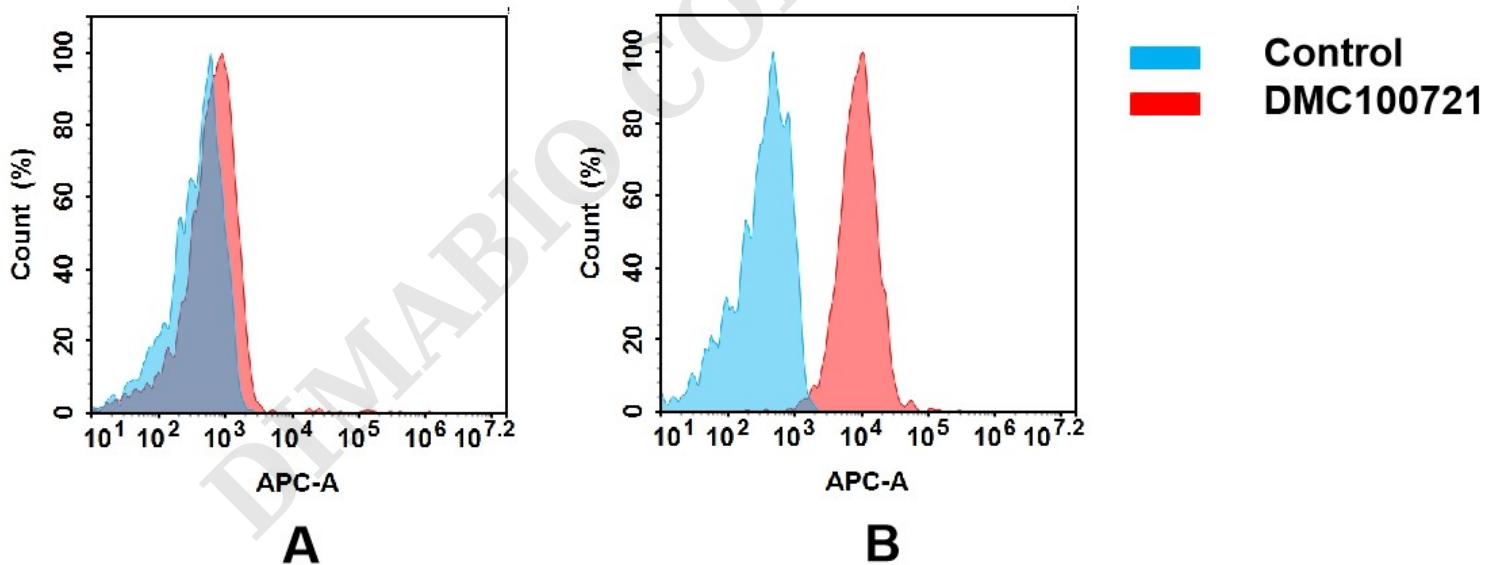


Figure 2. Flow cytometry analysis of antigen binding of anti-human IGF-1R mAb(DMC100721).

(A) DMC100721 does not bind to Jurkat cells that do not express IGF-1R.

(B) A clear peak shift of DMC100721 was seen compared to the control when incubated with IGF-1R-expressing MCF-7 cells, indicating strong binding of DMC100721 to IGF-1R. Antibodies were incubated at 5  $\mu$ g/mL.



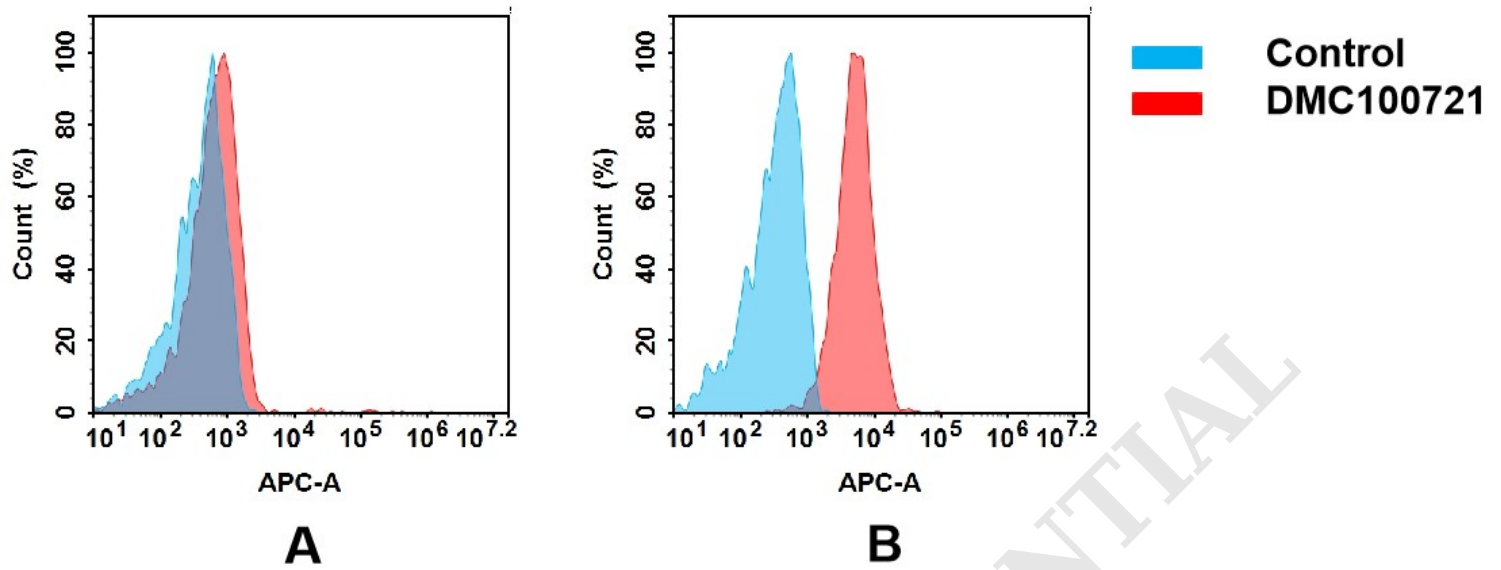


Figure 3. Flow cytometry analysis of antigen binding of anti-human IGF-1R mAb(DMC100721).

(A) DMC100721 does not bind to Jurkat cells that do not express IGF-1R .

(B) A clear peak shift of DMC100721 was seen compared to the control when incubated with IGF-1R-expressing Hela cells, indicating strong binding of DMC100721 to IGF-1R. Antibodies were incubated at 5  $\mu$ g/mL.

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