

PRODUCT INFORMATION

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| Clone ID | DM73 |
| Target | Mesothelin |
| Synonyms | MSLN; Mesothelin; MPF |
| Host Species | Rabbit |
| Description | Anti-mesothelin antibody(DM73); Rabbit mAb |
| Delivery | In Stock |
| Uniprot ID | Q13421 |
| IgG type | Rabbit IgG |
| Clonality | Monoclonal |
| Reactivity | Human |
| Applications | ELISA; Flow Cyt; WB |
| Recommended Dilutions | ELISA 1:5000-10000; Flow Cyt 1:100; WB 1:1000 |
| Purification | Purified from cell culture supernatant by affinity chromatography |
| Formulation & Reconstitution | 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. |
| Storage&Shipping | 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. |
| Background | This gene encodes a preproprotein that is proteolytically processed to generate two protein products; megakaryocyte potentiating factor and mesothelin. Megakaryocyte potentiating factor functions as a cytokine that can stimulate colony formation of bone marrow megakaryocytes. Mesothelin is a glycosylphosphatidylinositol-anchored cell-surface protein that may function as a cell adhesion protein. This protein is overexpressed in epithelial mesotheliomas; ovarian cancers and in specific squamous cell carcinomas. Alternative splicing results in multiple transcript variants; at least one of which encodes an isoform that is proteolytically processed. |
| Usage | Research use only |
| Conjugate | Unconjugated |
| DIMA Disclaimer | All DIMA recombinant antibodies are genuinely generated by DIMA Biotech. They are all under patent application. Any protein sequencing or reverse engineering attempt is prohibited. We are actively scrutinizing all patent application to ensure no IP infringement. |



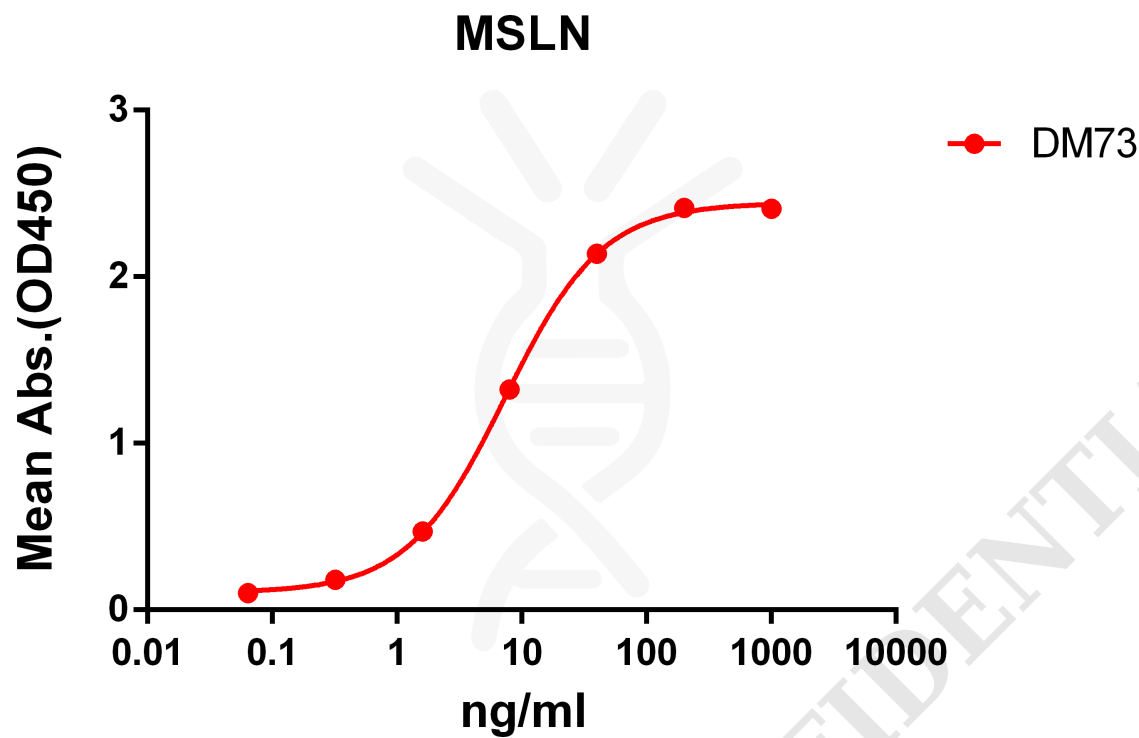


Figure 1. ELISA plate pre-coated by 2 $\mu\text{g/ml}$ (100 $\mu\text{l/well}$) Human MSLN protein, mFc-His tagged protein PME100031 can bind Rabbit anti-MSLN monoclonal antibody (clone: DM73) in a linear range of 1-100 ng/ml.

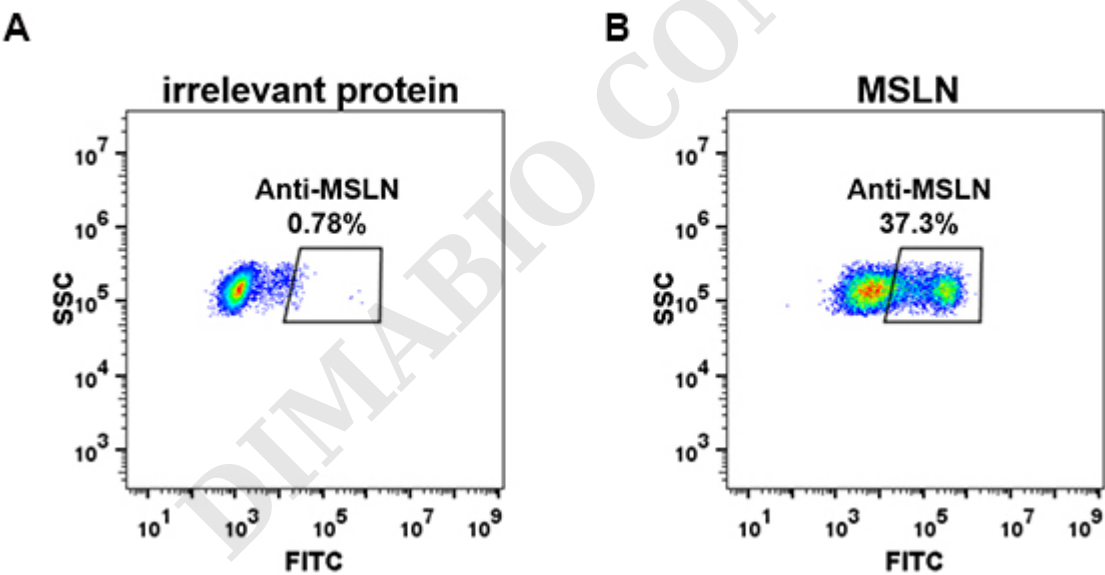


Figure 2. HEK293 cell line transfected with irrelevant protein (A) and human mesothelin (B) were surface stained with Rabbit anti-MSLN monoclonal antibody 1 $\mu\text{g/ml}$ (clone: DM73) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.



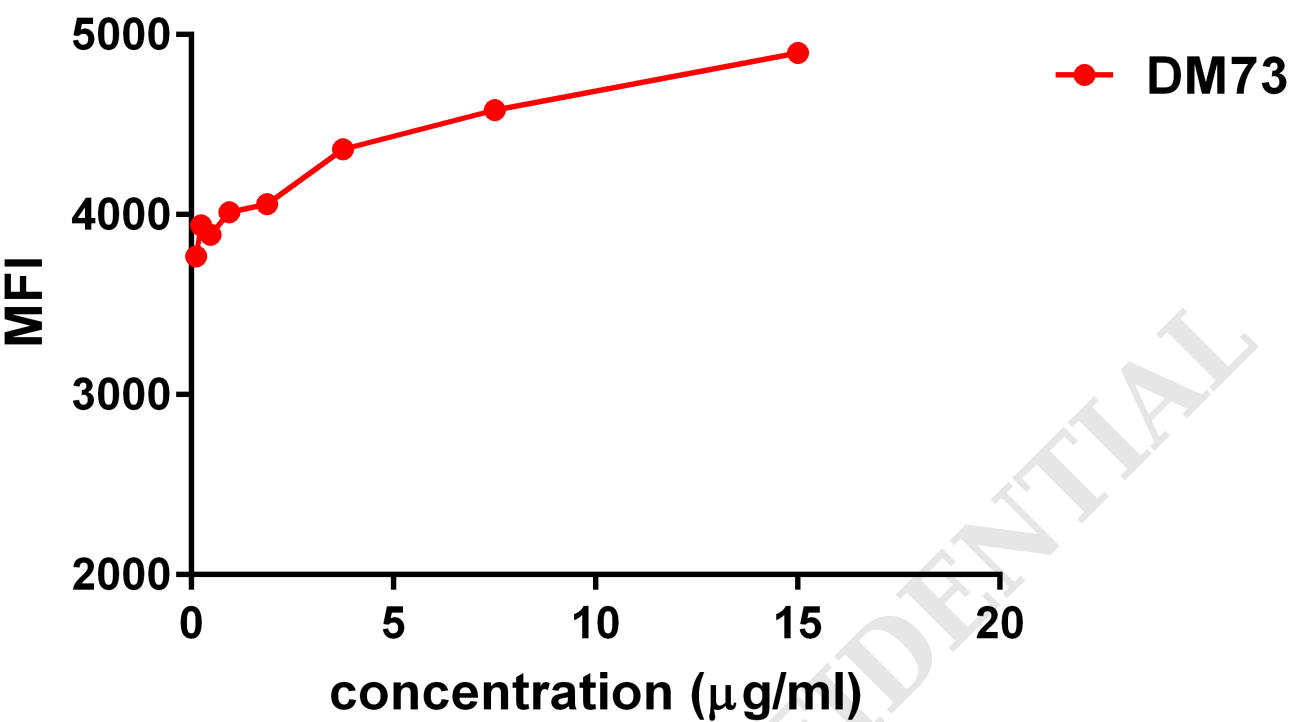


Figure 3. Flow cytometry data of serially titrated Rabbit anti-MSLN monoclonal antibody (clone: DM73) on Hela cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

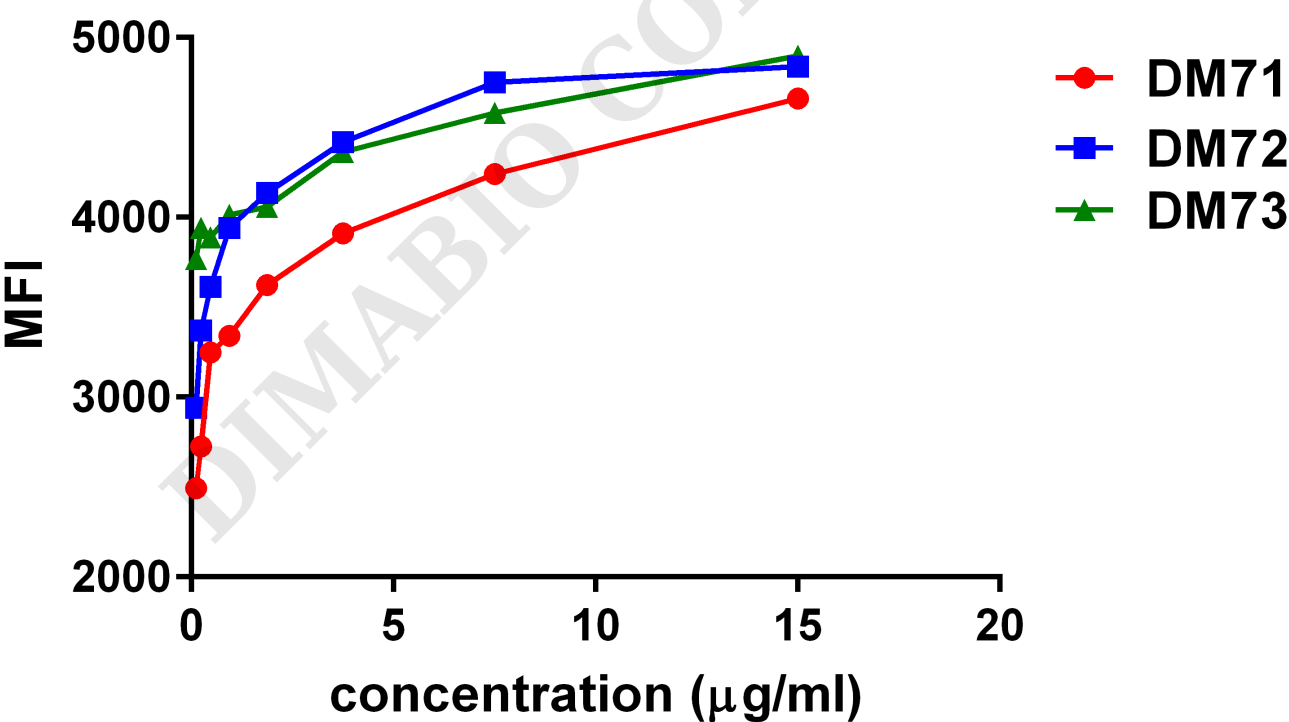


Figure 4. Affinity ranking of different Rabbit anti-MSLN mAb clones by titration of different concentration onto Hela cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.



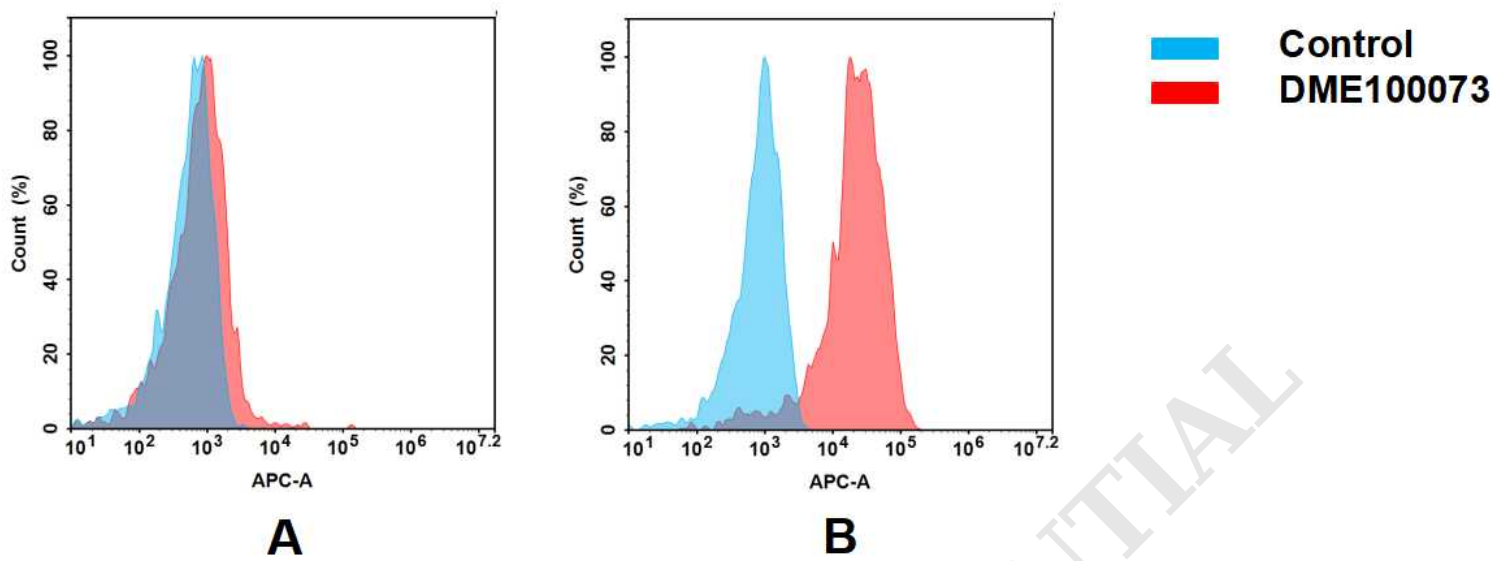
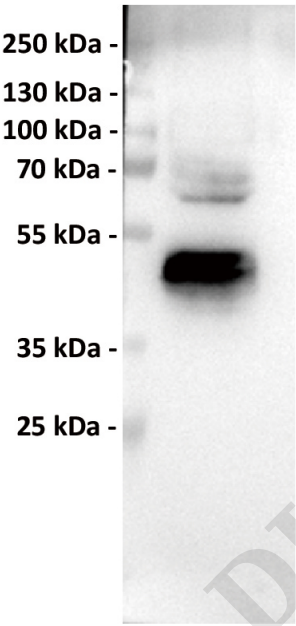


Figure 5. Flow cytometry analysis of antigen binding of rabbit anti-human Mesothelin mAb(DME100073).

(A) DME100073 does not bind to 293T cells that do not express Mesothelin.
(B) A clear peak shift of DME100073 was seen compared to the control when incubated with Mesothelin-expressing Hela cells, indicating strong binding of DME100073 to Mesothelin. Antibodies were incubated at 2 µg/mL.

Hela



MSLN-DM73

Figure 6. Anti-MSLN antibody (SKU# DME100073) at 1/1000 dilution

Lane : HeLa (human cervical adenocarcinoma epithelial cell), whole cell lysate

Secondary : Goat Anti-Rabbit IgG H&L (HRP) at 1/5000 dilution

Predicted band size: 69 kDa
Observed band size: 50 kDa

