## PRODUCT INFORMATION

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|---|---|
| **Clone ID** | DM139 |
| **Target** | 5T4 |
| **Synonyms** | 5T4 |
| **Host Species** | Rabbit |
| **Description** | Anti-5T4 antibody(DM139); Rabbit mAb |
| **Delivery** | In Stock |
| **Uniprot ID** | Q13641 |
| **IgG type** | Rabbit IgG |
| **Clonality** | Monoclonal |
| **Reactivity** | Human |
| **Applications** | ELISA; Flow Cyt |
| **Recommended Dilutions** | ELISA 1:5000-10000; Flow Cyt 1:100 |
| **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 leucine-rich transmembrane glycoprotein that may be involved in cell adhesion. The encoded protein is an oncofetal antigen that is specific to trophoblast cells. In adults this protein is highly expressed in many tumor cells and is associated with poor clinical outcome in numerous cancers. Alternate splicing in the 5' UTR results in multiple transcript variants that encode the same protein. |
| **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. |



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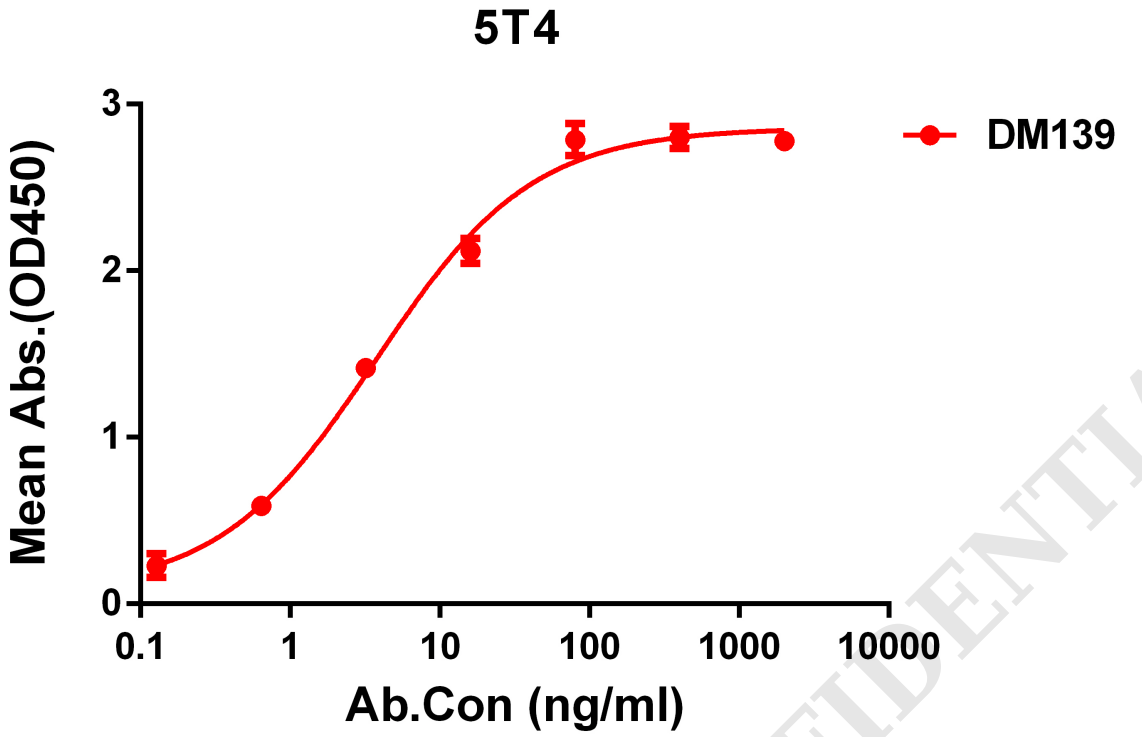


Figure 1. ELISA plate pre-coated by 1 μg/ml (100 μl/well) Human 5T4 protein, His tagged protein PME100123 can bind Rabbit anti-5T4 monoclonal antibody (clone: DM139) in a linear range of 0.1-16 ng/ml.

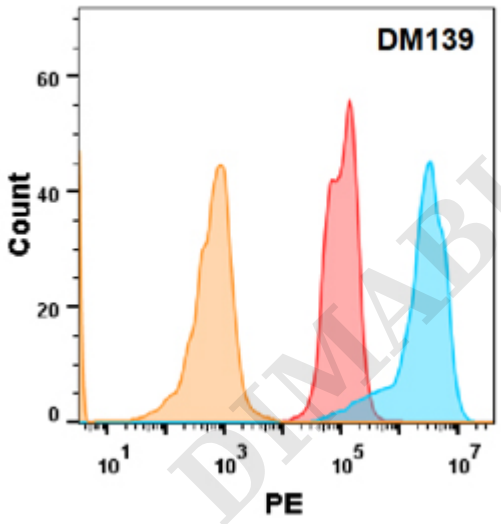


Figure 2. 5T4 protein is highly expressed on the surface of HEK293 cell membrane. Flow cytometry analysis with Anti-5T4 (DM139) on HEK293 cells transfected with human 5T4 (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram),and  Isotype antibody on HEK293 transfected with irrelevant protein (Orange histogram)



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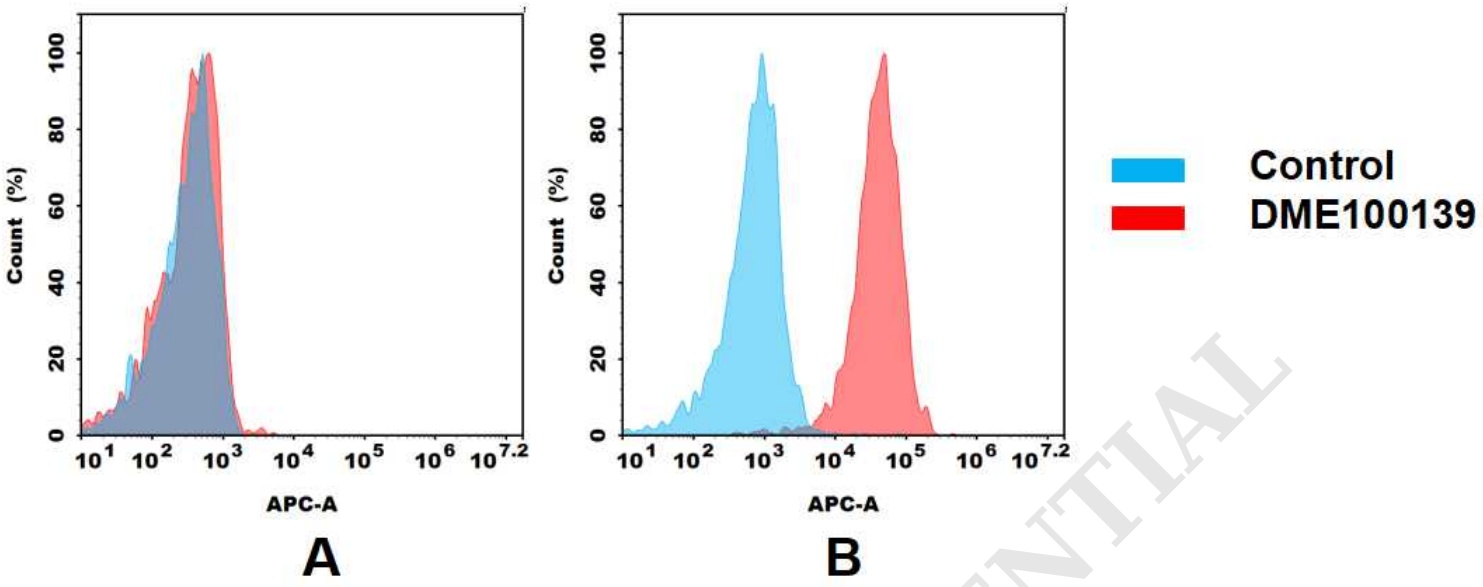


Figure 3. Flow cytometry analysis of antigen binding of anti-human 5T4 mAb(DME100139).
(A) DME100139 does weakly bind to Jurkat cells that do not express 5T4.
(B) A clear peak shift of DME100139 was seen compared to the control when incubated with 5T4-expressing MCF-7 cells, indicating strong binding of DME100139 to 5T4. Antibodies were incubated at 10 μg/mL.



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