

## PRODUCT INFORMATION

<b>Target</b>	TM4SF1
<b>Synonyms</b>	M3S1; TAAL6
<b>Description</b>	Human TM4SF1 full length protein membrane nanoparticles (MNPs)
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P30408
<b>Expression Host</b>	HEK293
<b>Protein Families</b>	Transmembrane
<b>Protein Pathways</b>	N/A
<b>Molecular Weight</b>	The human full length TM4SF1 protein has a MW of 21.6 kDa
<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>	The protein is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface antigen and is highly expressed in different carcinomas.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



### ELISA assay to evaluate TM4SF1-MNPs 0.5 $\mu$ g Human TM4SF1-MNPs per well

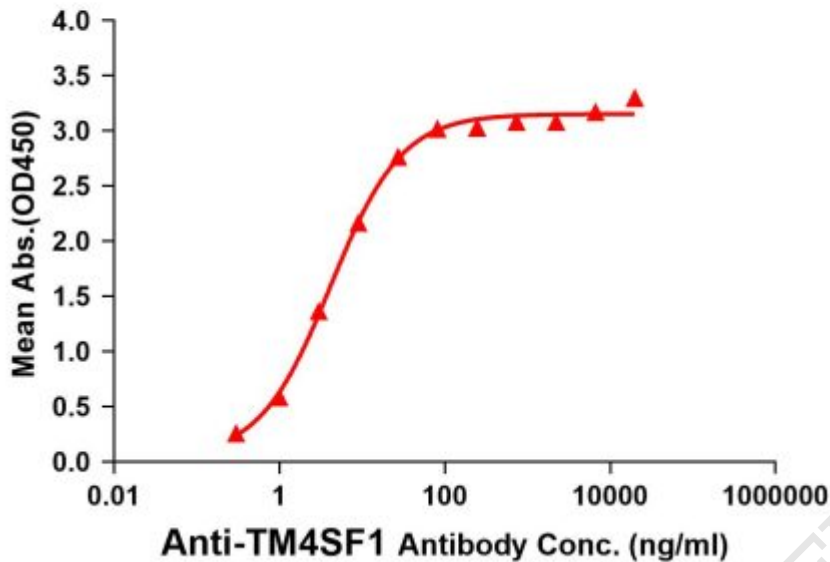


Figure1. Elisa plates were pre-coated with 0.5 $\mu$ g/per well purified human TM4SF1 full length membrane nanoparticles. Serial diluted anti-TM4SF1 monoclonal antibody (BME100159) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-TM4SF1 monoclonal antibody binding with TM4SF1 full length membrane nanoparticles is 4.174ng/ml.

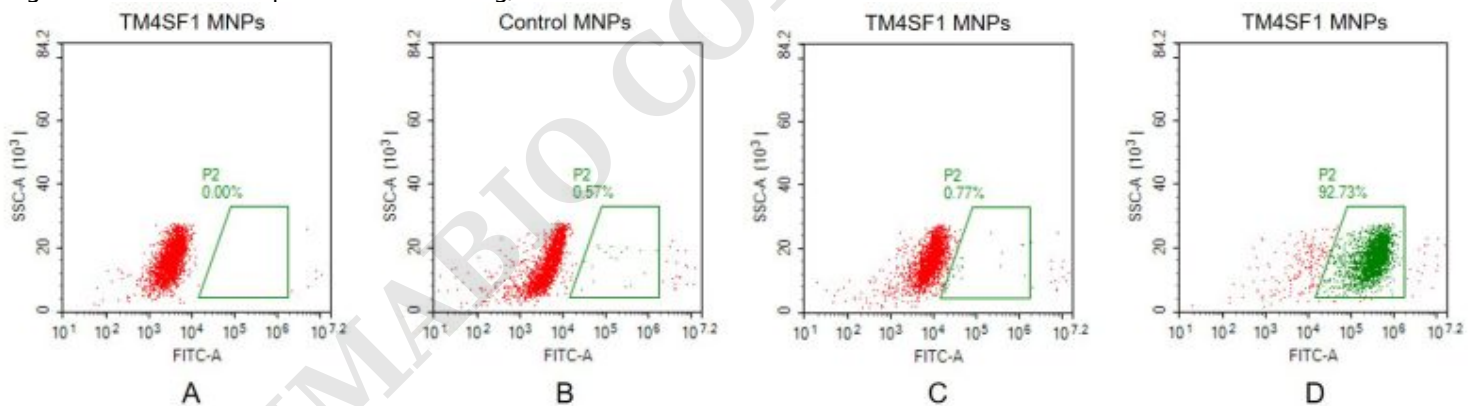


Figure2. FACS analysis of TM4SF1 MNPs

- A. Negative Control 1: TM4SF1 full length membrane nanoparticles samples were stained only with Goat anti-human IgG 488 secondary antibody.
- B. Negative Control 2: Control membrane nanoparticles samples were stained with anti-TM4SF1 antibody (BME100159) at 2 $\mu$ g/mL, followed by Goat anti-human IgG 488 secondary antibody.
- C. Negative Control 3: TM4SF1 full length membrane nanoparticles samples were stained with anti-CCR8 antibody (an irrelevant antibody) at 2 $\mu$ g/mL, followed by Goat anti-human IgG 488 secondary antibody.
- D. TM4SF1 full length membrane nanoparticles samples were stained with anti-TM4SF1 antibody (BME100159) at 2 $\mu$ g/mL, followed by Goat anti-human IgG 488 secondary antibody.

