

DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TM4SF1/L6 in ELISA. Stains human TM4SF1/L6 transfected cells but not irrelevant transfectants.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 877621
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human TM4SF1/L6 Met1-Cys202 Accession # P30408
<b>Conjugate</b>	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

## DATA

**Flow Cytometry**

**Detection of TM4SF1/L6 in A549 Human Cell Line by Flow Cytometry.** A549 human lung carcinoma cell line was stained with Mouse Anti-Human TM4SF1/L6 PE-conjugated Monoclonal Antibody (Catalog # FAB8164P, filled histogram) or isotype control antibody (Catalog # IC002P, open histogram). View our protocol for [Staining Membrane-associated Proteins](#).

**Flow Cytometry**

**Detection of TM4SF1/L6 in HEK293 Human Cell Line Transfected with Human TM4SF1/L6 and eGFP by Flow Cytometry.** HEK293 human embryonic kidney cell line transfected with human TM4SF1/L6 and eGFP was stained with either (A) Mouse Anti-Human TM4SF1/L6 PE-conjugated Monoclonal Antibody (Catalog # FAB8164P) or (B) Mouse IgG<sub>1</sub> Phycoerythrin Isotype Control (Catalog # IC002P). View our protocol for [Staining Membrane-associated Proteins](#).

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

TM4SF1 (Transmembrane 4 L6 family Member 1; also L6 and M3s1) is a 23-28 kDa member of the L6 tetraspanin family of molecules. It is expressed by fibroblasts, endothelial cells and a variety of tumor cells. TM4SF1 is embedded in both the plasma membrane and the membrane of late endocytic organelles. Here, it appears to be ubiquitinated, and to regulate endocytosis, an action that impacts effective cell migration. TM4SF1 is reported to interact with  $\alpha$ 5 and  $\beta$ 1 integrins, and this may impact cell motility. It also suppresses the expression of CD63 and CD82, two molecules that impede cell mobility. Human TM4SF1 is a 202 amino acid (aa) 4-transmembrane (TM) glycoprotein. It contains a short N-terminal cytoplasmic region (aa 1-9), followed by four TM regions and another C-terminal cytoplasmic region (aa 183-202). Human TM4SF1 shares 78% and 80% aa sequence identity with mouse and rat TM4SF1, respectively.