

# TM4SF1 Antibody

Catalog # ASC11297

## Product Information

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<b>Application</b>	WB, IF, E, IHC-P
<b>Primary Accession</b>	<a href="#">P30408</a>
<b>Other Accession</b>	<a href="#">NP_055035</a> , <a href="#">21265101</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	21632
<b>Concentration (mg/ml)</b>	1 mg/mL
<b>Conjugate</b>	Unconjugated
<b>Application Notes</b>	TM4SF1 antibody can be used for detection of TM4SF1 by Western blot at 0.5 - 1 $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 5 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL.

## Additional Information

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<b>Gene ID</b>	4071
<b>Other Names</b>	Transmembrane 4 L6 family member 1, Membrane component chromosome 3 surface marker 1, Tumor-associated antigen L6, TM4SF1, M3S1, TAAL6
<b>Target/Specificity</b>	TM4SF1; At least three isoforms of TM4SF1 are known to exist; this antibody will recognize only the two largest isoforms. TM4SF1 antibody is predicted to not cross-react with other tetraspanin proteins.
<b>Reconstitution &amp; Storage</b>	TM4SF1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
<b>Precautions</b>	TM4SF1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TM4SF1
<b>Synonyms</b>	M3S1, TAAL6
<b>Cellular Location</b>	Membrane; Multi-pass membrane protein. Note=Colocalizes with SDCBP2 in the apical region of the cell (PubMed:11102519).
<b>Tissue Location</b>	Highly expressed in lung, breast, colon and ovarian carcinomas. It is also present on some normal cells, endothelial cells in particular

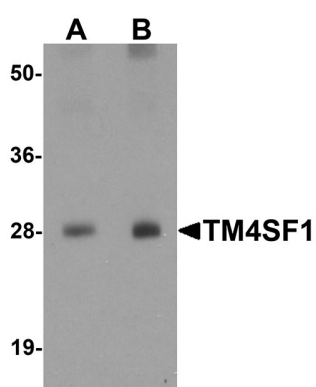
## Background

**TM4SF1 Antibody:** TM4SF1 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 and mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. TM4SF1 is a cell surface antigen and is highly expressed in the vascular endothelium of several human cancers. Knockdown experiments of TM4SF1 prevented filopodia formation, inhibited cell mobility, blocked cytokinesis, and inhibited maturation of VEGF-A-induced angiogenesis, suggesting that TM4SF1 may be an attractive target for anti-angiogenesis therapy.

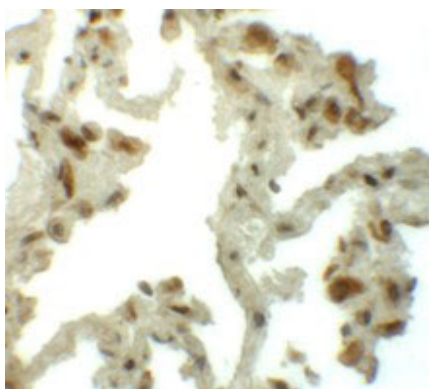
## References

Marken JS, Schieven GL, Hellstrom I, et al. Cloning and expression of the tumor-associated antigen L6. *Proc. Natl. Acad. Sci. USA* 1992; 89:3503-7  
Romanska HM and Berditchevski F. Tetraspanins in human epithelial malignancies. *J. Pathol.* 2011; 223:4-14  
Shih SC, Zukauskas A, Li D, et al. The L6 TM4SF1 is critical for endothelial cell function and tumor angiogenesis. *Cancer Res.* 2009; 69:3272-7.

## Images

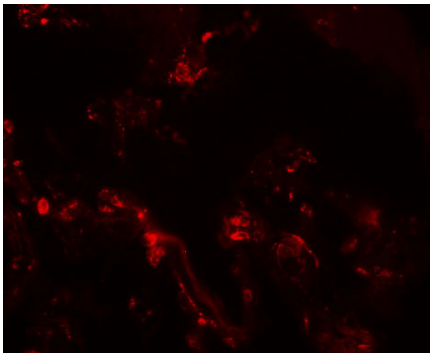


Western blot analysis of TM4SF1 in human lung tissue lysate with TM4SF1 antibody at (A) 0.5 and (B) 1 µg/mL.



Immunohistochemistry of TM4SF1 in human lung tissue with TM4SF1 antibody at 5 µg/mL.

Immunofluorescence of TM4SF1 in human lung tissue with TM4SF1 antibody at 20 µg/mL.



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