

Datasheet for 600-401-FH0**TM4SF1 Antibody****Overview**

Description:	Anti-TM4SF1 (RABBIT) Antibody - 600-401-FH0
Item No.:	600-401-FH0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	TM4SF1 Antibody, L6, H-L6, M3S1, TAAL6, Transmembrane 4 L6 family member 1, Membrane component chromosome 3 surface marker 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TM4SF1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TM4SF1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the N-terminus of human TM4SF1.

Purity/Specificity:	Anti-TM4SF1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. 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.
Relevant Links:	• UniProtKB - P30408 • GeneID - 4071 • NCBI - NP_055035.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TM4SF1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 22 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	0.5-1 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

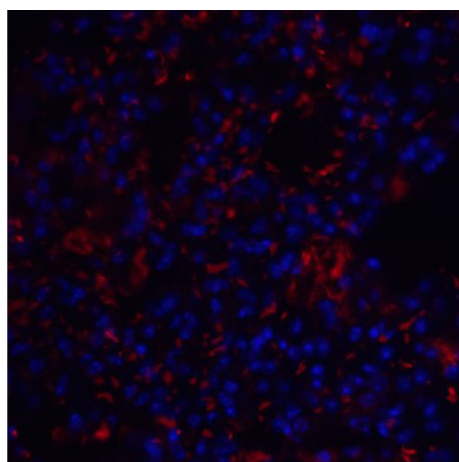
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



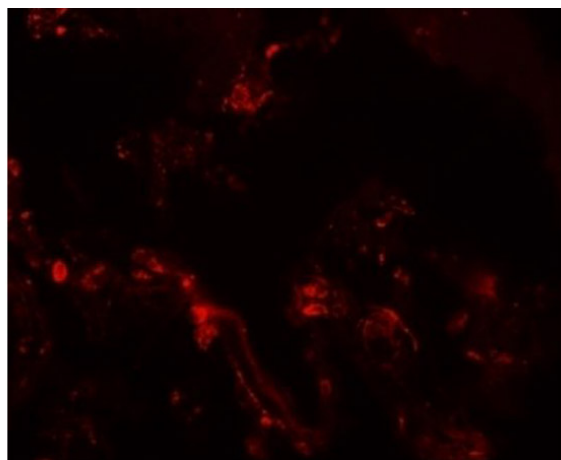
Immunofluorescence Microscopy

Immunofluorescence of TM4SF1.

Tissue: mouse lung tissue.

Primary Antibody: TM4SF1 antibody at 20 µg/mL.

Staining: TM4SF1 Antibody (Red), DAPI staining (Blue).

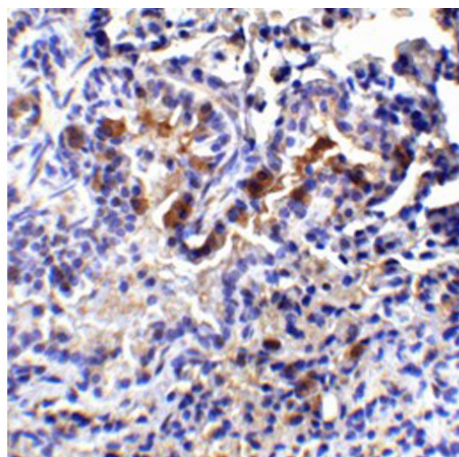


Immunofluorescence Microscopy

Immunofluorescence of TM4SF1.

Tissue: human lung tissue.

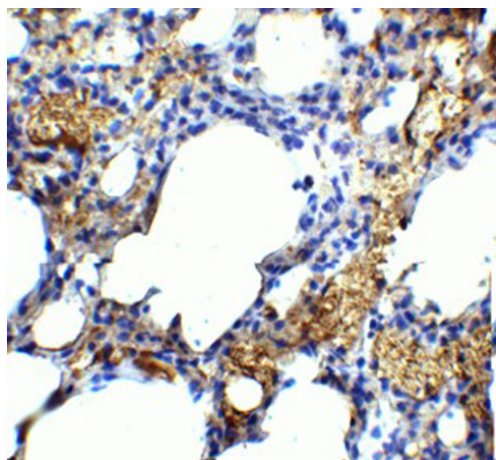
Primary Antibody: TM4SF1 antibody at 20 µg/mL.

**Immunohistochemistry**

Immunohistochemistry of TM4SF1.

Tissue: mouse lung tissue.

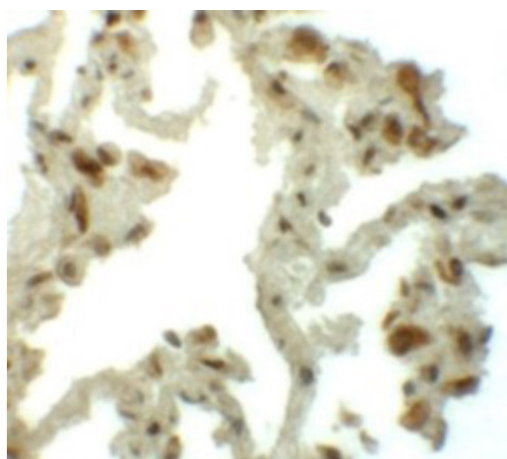
Primary Antibody: TM4SF1 antibody at 2 µg/mL.

**Immunohistochemistry**

Immunohistochemistry of TM4SF1.

Tissue: mouse lung tissue.

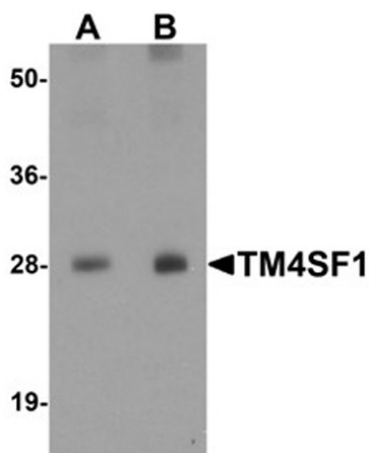
Primary Antibody: TM4SF1 antibody at 5 µg/mL.

**Immunohistochemistry**

Immunohistochemistry of TM4SF1.

Tissue: human lung tissue.

Primary Antibody: TM4SF1 antibody at 5 µg/mL.

**Western Blot**

Western blot analysis of TM4SF1.

Load: human lung tissue lysate.

Primary Antibody: TM4SF1 antibody at (A) 0.5 µg/mL and (B) 1 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.