

**Anti-human TM9SF4 antibody**  
**Purified Rabbit Polyclonal Antibody**  
**Catalog # ABV11692****Specification**

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**Anti-human TM9SF4 antibody - Product Information**

Application	IHC, WB, FC
Primary Accession	<a href="#">Q92544</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	74519

**Anti-human TM9SF4 antibody - Additional Information****Gene ID** 9777**Other Names**

Transmembrane 9 superfamily member 4, TM9SF4, KIAA0255

**Target/Specificity**

TM9SF4 (unconjugated)

**Formulation**

0.5 mg/ml in Glycine (0.1 M), NaCl (0.5 M), Tris-HCl (0.1 M), Sodium Azide (15 mM), pH: 7.

**Handling**

The antibody solution should be gently mixed before use

**Background Descriptions****Precautions**

Anti-human TM9SF4 antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-human TM9SF4 antibody - Protein Information****Name** TM9SF4**Synonyms** KIAA0255, TUCAP1 {ECO:0000303|PubMed:198**Function**Associates with proteins harboring glycine-rich transmembrane domains and ensures their efficient localization to the cell surface (PubMed:[25999474](http://www.uniprot.org/citations/25999474)). Regulates the assembly and activity of V-ATPase in colon cancer cells via its interaction with V-type proton

ATPase subunit H (ATP6V1H) and contributes to V-ATPase-mediated pH alterations in cancer cells which play an important role in drug resistance and invasiveness of colon cancer cells (PubMed:<a href="http://www.uniprot.org/citations/25659576" target="\_blank">25659576</a>). Plays an important role in an atypical phagocytic activity of metastatic melanoma cells called cannibalism and is involved in the pH regulation of the intracellular vesicles in tumor cells (PubMed:<a href="http://www.uniprot.org/citations/19893578" target="\_blank">19893578</a>).

#### **Cellular Location**

Membrane; Multi-pass membrane protein. Golgi apparatus Early endosome

#### **Tissue Location**

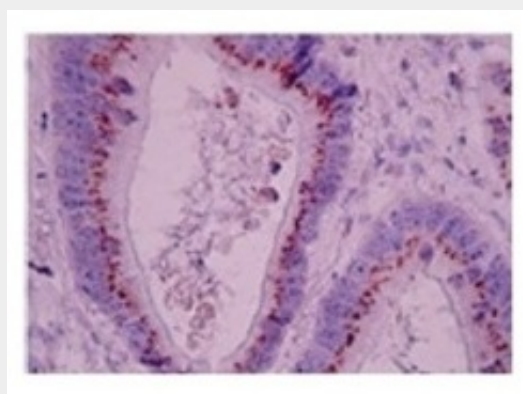
Highly expressed in metastatic melanoma cells whereas it is undetectable in primary melanoma cells, healthy skin tissues and peripheral blood lymphocytes. Expressed in CD34(+) hematopoietic progenitor cells and during monocyte and granulocyte differentiation. Overexpressed in acute myeloid leukemia, in particular in those displaying granulocytic differentiation (at protein level)

#### **Anti-human TM9SF4 antibody - Protocols**

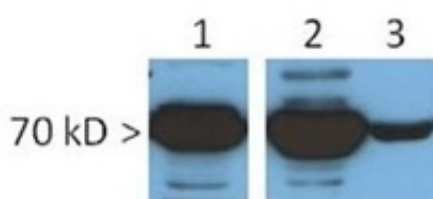
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

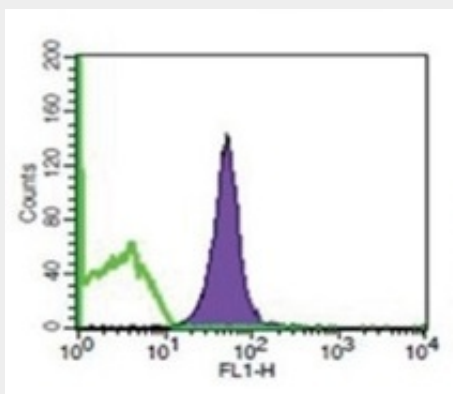
#### **Anti-human TM9SF4 antibody - Images**



Immunohistochemical staining of TM9SF4 in specimens derived from healthy colon.



Detection of TM9SF4 by Western blot. 1.HEK293 cell lysate(20ug); 2.MM1 cell supernatant purified exosomes(20ug); 3.Plasma of healthy donors purified exosomes(20ug).



Purified exosomes from MM1 cell line detected by TM9SF4 antibody.

#### **Anti-human TM9SF4 antibody - Background**

TM9SF4 (TUCAP1) is a new tumor associated protein that belongs to the Trans-Membrane 9 Superfamily (TM9SF), a family of proteins with unknown function. These proteins are characterized by the presence of a large variable extracellular N-terminal domain followed by nine putative transmembrane domains in the conserved C terminal domain. TM9SF4 resulted expressed in exosomes derived principally from tumoral source.