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

Specification

Anti-human TM9SF4 antibody - Product Information

Application	**IHC, WB, FC**
Primary Accession	Q92544
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). 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:25659576). 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:19893578).

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

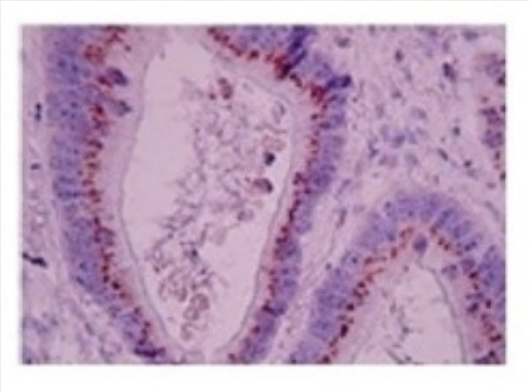
Tissue Location
Highly expressed in metastatic melanoma cells whereas it is undetectable in primary melanoma cells, healthy skin tissues and peripheral blood lymphocytes. Expressed in CD34(+) hematopoietic progenitor cells and during monocyte and granulocyte differentiation. Overexpressed in acute myeloid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

Anti-human TM9SF4 antibody - Protocols

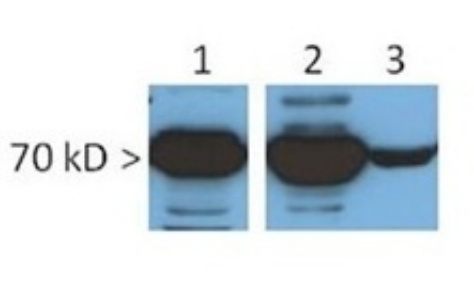
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-human TM9SF4 antibody - Images

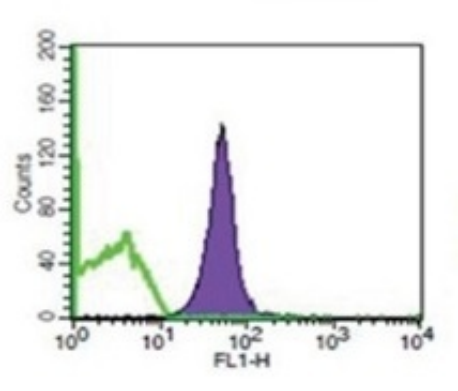


Immunohistochemical staining of TM9SF4 in specimens derived from healthy colon.



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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.