

Product Information

Anti-TM4SF4 (126-140)

produced in rabbit, IgG fraction of antiserum

Catalog Number **SAB1100990**

Product Description

Anti- TM4SF4 (126-140) is produced in rabbit using as immunogen a synthetic peptide corresponding to amino acids 126-140 of human TM4SF4 (GeneID 7104), conjugated to KLH. Whole antiserum is purified using protein A immobilized on agarose to provide the IgG fraction of antiserum.

Anti- TM4SF4 (126-140) specifically recognizes human TM4SF4 (not tested with other species). The antibody may be used in several immunochemical techniques including immunoblotting (~23 kDa). Detection of the TM4SF4 band by immunoblotting is specifically inhibited by the immunizing peptide.

The TM4SF4 protein 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. The rat homolog of TM4SF4 was found to be up-regulated in regenerating liver after two-thirds hepatectomy.¹ TM4SF4 is frequently and significantly over-expressed in hepatocellular carcinoma (HCC).^{2,3} Reduction of TM4SF4 expression in HCC cell lines by stably transfecting TM4SF4 antisense plasmid caused great inhibition of cell proliferation, suggesting that TM4SF4 may play a crucial role in promotion of HCC cell proliferation.²

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working dilution of 1:500-1:1,000 is recommended using lysates of HEK-293T cells over-expressing human recombinant TM4SF4 protein.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

References

1. Liu, Z., *Biochim Biophys Acta*, **1518**, 183-9 (2001).
2. Li, Y., et al., *Acta Biochim Biophys Sin (Shanghai)*, **44**, 224-232 (2012).
3. Huang, M.Y., *DNA Cell Biol.*, **31**, 43-49 (2012).

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