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ST14 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6248a

Specification

ST14 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession	Q9Y5Y6
Other Accession	NP_068813

ST14 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 6768

Other Names
Suppressor of tumorigenicity 14 protein, Matriptase, Membrane-type serine protease 1, MT-SP1, Prostamin, Serine protease 14, Serine protease TADG-15, Tumor-associated differentially-expressed gene 15 protein, ST14, PRSS14, SNC19, TADG15

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6248a was selected from the C-term region of human ST14 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ST14 Antibody (C-term) Blocking Peptide - Background

ST14 is an epithelial-derived, integral membrane serine protease. This protease forms a complex with the Kunitz-type serine protease inhibitor, HAI-1, and is found to be activated by sphingosine 1-phosphate. This protease has been shown to cleave and activate hepatocyte growth factor/scattering factor, and urokinase plasminogen activator, which suggest the function of this protease as an epithelial membrane activator for other proteases and latent growth factors. The expression of this protease has been associated with breast, colon, prostate, and ovarian tumors, which implicates its role in cancer invasion, and metastasis.

ST14 Antibody (C-term) Blocking Peptide - References

Santin, A.D., et al., Cancer 98(9):1898-1904 (2003).Oberst, M.D., et al., J. Biol. Chem. 278(29):26773-26779 (2003).Ihara, S., et al., J. Biol. Chem. 277(19):16960-16967 (2002).Benaud, C.M., et al., Clin. Exp. Metastasis 19(7):639-649 (2002).Benaud, C., et al., J. Biol. Chem. 277(12):10539-10546 (2002).

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Protein Information

Name ST14

Synonyms PRSS14, SNC19, TADG15

Function
Degrades extracellular matrix. Proposed to play a role in breast cancer invasion and metastasis. Exhibits trypsin-like activity as defined by cleavage of synthetic substrates with Arg or Lys as the P1 site. Involved in the terminal differentiation of keratinocytes through prostasin (PRSS8) activation and filaggrin (FLG) processing.

Cellular Location
Membrane; Single-pass type II membrane protein

ST14 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides