**Product Name: Matriptase Rabbit Polyclonal Antibody**
**Catalog #: APRab13672**

## Summary

| | |
|---|---|
| **Production Name** | Matriptase Rabbit Polyclonal Antibody |
| **Description** | Rabbit Polyclonal Antibody |
| **Host** | Rabbit |
| **Application** | IF,WB,ELISA |
| **Reactivity** | Human,Rat,Mouse |

## Performance

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|---|---|
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Form** | Liquid |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| **Purification** | Affinity purification |

## Immunogen

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|---|---|
| **Gene Name** | ST14 |
| **Alternative Names** | ST14; PRSS14; SNC19; TADG15; 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 |
| **Gene ID** | 6768.0 |
| **SwissProt ID** | Q9Y5Y6.The antiserum was produced against synthesized peptide derived from human ST14. AA range:10-59 |

## Application

| | |
|---|---|
| **Dilution Ratio** | WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications. |

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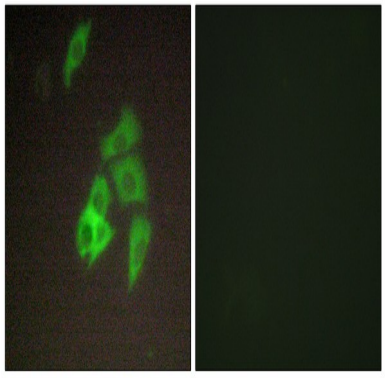
**Molecular Weight** 95kD

## Background

The protein encoded by this gene 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. [provided by RefSeq, Jul 2008],catalytic activity:Cleaves various synthetic substrates with Arg or Lys at the P1 position and prefers small side-chain amino acids, such as Ala and Gly, at the P2 position.,disease:Defects in ST14 are a cause of ichthyosis autosomal recessive with hypotrichosis (ARIH) [MIM:610765]. ARIH is a skin disorder characterized by congenital ichthyosis associated with the presence of less than the normal amount of hair.,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.,similarity:Belongs to the peptidase S1 family.,similarity:Contains 1 peptidase S1 domain.,similarity:Contains 2 CUB domains.,similarity:Contains 4 LDL-receptor class A domains.,subunit:Interacts with CDCP1. May interact with TMEFF1.,

## Research Area

## Image Data



Immunofluorescence analysis of A549 cells, using ST14 Antibody. The picture on the right is blocked with the synthesized peptide.

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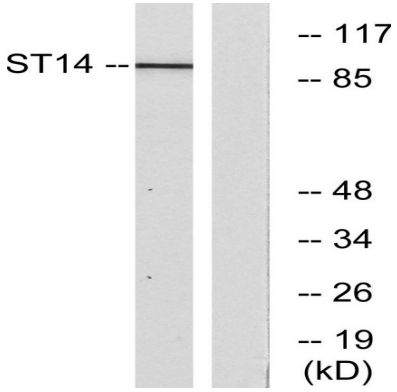
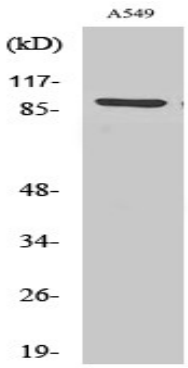



Western blot analysis of lysates from A549 cells, using ST14 Antibody. The lane on the right is blocked with the synthesized peptide.




Western Blot analysis of various cells using Matriptase Polyclonal Antibody

## Note

For research use only.