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Product datasheet for AP01183PU-S

ST14 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	**Western Blot:** 1/500 - 1/1000. **Immunofluorescence**: 1/50 - 1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the N-terminual of Human Matriptase.
Specificity:	This antibody detects endogenous levels of Matriptase protein. (region surrounding Lys21)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 15 mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch
Predicted Protein Size:	~ 90 kDa
Gene Name:	suppression of tumorigenicity 14
Database Link:	Entrez Gene 6768 Human Q9Y5Y6

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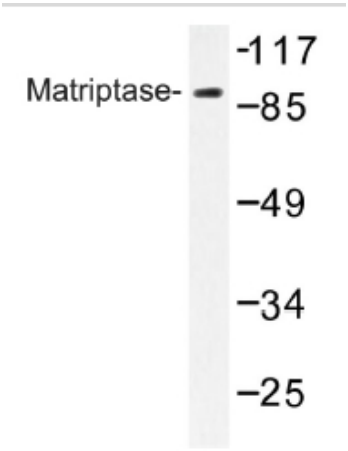
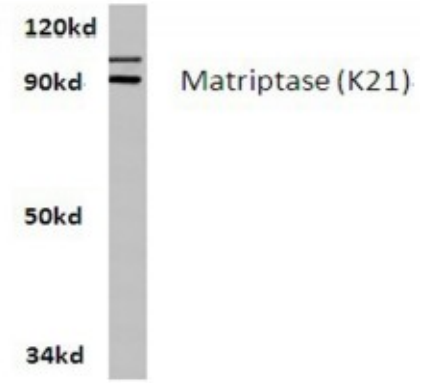
Background: Matriptase (also known as MT-SP1, ST14, prostamin and epithin in mouse) is a tumor-associated type II transmembrane serine protease that is highly expressed in many human cancer-derived cell lines and is implicated in extracellular matrix re-modeling, tumor growth, and metastasis. Matriptase performs pleiotropic functions in the development of the epidermis, hair follicles, and cellular immune system. Sphingosine 1-phosphate (S1P, SPP), present in serum-derived lipoproteins, activates matriptase while matriptase activates both urokinase-type plasminogen activator and hepatocyte growth factor (HGF). Hepatocyte growth factor activator inhibitor type 1 (HAI-1) is a Kunitz-type serine protease inhibitor identified as a strong inhibitor of matriptase and HGF. Advanced-stage ovarian tumors that express matriptase are more likely to do so in the absence of its inhibitor, HAI-1, indicating that an imbalance in the matriptase: HAI-1 ratio could be important in the development of advanced disease.

Synonyms: PRSS14, SNC19, TADG15, T-SP1, Prostamin, Serine protease 14, Serine protease TADG-15

Product images:



Western blot (WB) analysis of Matriptase antibody in extracts from A549.



Hela whole cell lysate
Matriptase (K21) pAb at 1:500 dilution

Western blot (WB) analysis of Matriptase antibody in extracts from hela cells.