



Matriptase Polyclonal Antibody

Catalog No	YP-Ab-14831
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IF;ELISA
Gene Name	ST14
Immunogen	The antiserum was produced against synthesized peptide derived from human ST14. AA range:10-59
Specificity	Matriptase Polyclonal Antibody detects endogenous levels of Matriptase protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Epithin;HAI;Matriptase;Membrane type serine protease 1;Membrane type serine protease;Membrane-type serine protease 1;MT SP1;MT-SP1;MTSP 1;MTSP1;Prostamin;PRSS 14;PRSS14;Serine protease 14;Serine protease TADG 15;Serine protease TADG-15;Serine protease TADG15;SNC 19;SNC19;ST 14;ST14;ST14_HUMAN;Suppression of tumorigenicity 14 (colon carcinoma matriptase epithin);Suppression of tumorigenicity 14 (colon carcinoma);Suppression of tumorigenicity 14;Suppressor of tumorigenicity 14 protein;Suppressor of tumorigenicity protein 14;TADG 15;TADG15;TMPRSS14;Tumor associated differentially expressed gene 15 protein;Tumor-associated differentially-expressed gene 15 protein
Observed Band	95kD
Calculated Molecular Weight	95kD
Cell Pathway	Membrane ; Single-pass type II membrane protein .
Tissue Specificity	Blood,Colon,Milk,Muscle,Prostate,

**Function**

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. ,

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],

matters needing attention

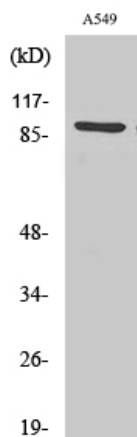
Avoid repeated freezing and thawing!

Usage suggestions

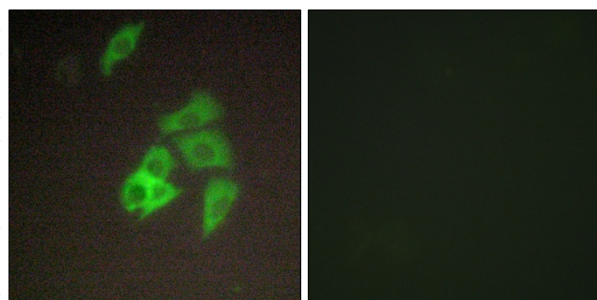
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



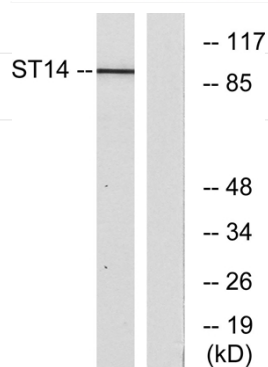
Products Images



Western Blot analysis of various cells using Matriptase Polyclonal Antibody



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



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