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ST14 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant ST14.
Catalog # AT4050a

Product Information

Application	E
Primary Accession	Q9Y5Y6
Other Accession	NM_021978
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2F4
Calculated MW	94770

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	ST14 (NP_068813, 298 a.a. ~ 400 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ST14 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

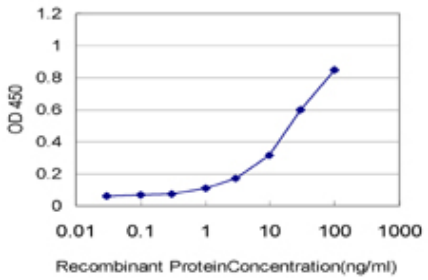
Background

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.

References

1.Novel surface targets and serum biomarkers from the ovarian cancer vasculature.Sasaroli D, Gimotty PA, Pathak HB, Hammond R, Kougioumtzidou E, Katsaros D, Buckanovich R, Devarajan K, Sandaltzopoulos R, Godwin AK, Scholler N, Coukos G.Cancer Biol Ther. 2011 Aug 1;12(3):169-80. Epub 2011 Aug 1.

Images



Detection limit for recombinant GST tagged ST14 is approximately 1ng/ml as a capture antibody.