

Datasheet for ABIN2648780 **ST14 ELISA Kit**



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Overview

Quantity:	96 tests
Target:	ST14
Reactivity:	Human
Application:	ELISA

Product Details

Sample Type:	Serum
Detection Method:	Colorimetric
Sensitivity:	2 ng/ml
Characteristics:	<p>The protein encoded by the Matriptase 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.</p>

Target Details

Target:	ST14
Alternative Name:	Matriptase (ST14 Products)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Sample Volume: 100 μ L

Assay Time: 2.5 h

Plate: Pre-coated

Protocol: The Matriptase (TADG-15) ELISA assay kit is based on the principle of a solid phase enzyme-linked immunosorbent assay. The assay system utilizes a monoclonal antibody directed against a distinct antigenic determinant on the intact Matriptase molecule for solid phase immobilization (on the microtiter wells). Standards, calibrators, and patient samples are incubated with the solid phase antibody on the plate. Wells are then washed and incubated with a biotin conjugated anti-Matriptase monoclonal antibody. After a second wash Streptavidin conjugated to HRP is added as a reporting agent. Excess streptavidin-HRP is then washed off and a solution of TMB Reagent is added and incubated resulting in the development of a blue color if Matriptase is present. The color development is stopped with the addition of Stop Solution changing the color to yellow. The concentration of Matriptase is directly proportional to the color intensity of the test sample. Absorbance is measured spectrophotometrically at 450nm.

Restrictions: For Research Use only

Handling

Storage: 4 °C
