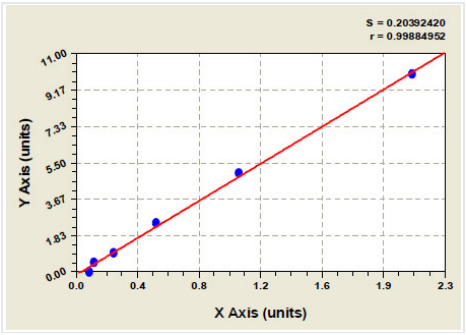
Stromelysin-2 (ST2) ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	Stromelysin-2 (ST2), ELISA Kit
Full Product Name	Monkey Stromelysin-2 ELISA Kit
Product Gene Name	ST2 elisa kit
Species Reactivity	Monkey
Assay Type	Sandwich
Samples	Serum, plasma, cell culture superna tants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	54,151 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (102641233..102651359, complement). Location: 11q22.3
OMIM	185260
3D Structure	ModBase 3D Structure for P09238
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for ST2 elisa kit	**For samples:** Serum, plasma, cell culture supernatants, body fluid and tissue homogenate **INTENDED USE** This ST2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Monkey ST2. This ELISA kit for research use only! **PRINCIPLE OF THE ASSAY** ST2 ELISA kit applies the quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a monoclonal antibody specific for ST2. Standards or samples are then added to the microtiter plate wells and ST2 if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount of ST2 present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated polyclonal antibody, specific for ST2 are added to each well to “sandwich” the ST2 immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain ST2 and enzyme-conjugated antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ST2 concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of ST2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ST2 purchase	MBS737754 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Stromelysin-2 (ST2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ST2. The ELISA analytical biochemical technique of the MBS737754 kit is based on ST2 antibody-ST2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ST2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ST2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of ST2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ST2. It may not necessarily be applicable to this product.

NCBI GI #	4505205
NCBI GeneID	4319
NCBI Accession #	NP_002416.1
UniProt Primary Accession #	P09238
UniProt Secondary Accession #	Q53HH9; B2R9X9
UniProt Related Accession #	P09238
GenBank Nucleotide #	NM_002425.2
NCBI Official Full Name	stromelysin-2 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 10 (stromelysin 2)
NCBI Official Symbol	MMP10
NCBI Official Synonym Symbols	SL-2; STMY2
UniProt Protein Name	Stromelysin-2
UniProt Synonym Protein Names	Matrix metalloproteinase-10; MMP-10; Transin-2
Protein Family	High affinity sulfate transporter
UniProt Gene Name	MMP10
UniProt Synonym Gene Names	STMY2; SL-2; MMP-10
UniProt Entry Name	MMP10_HUMAN
NCBI Protein Information	stromelysin-2; MMP-10; transin 2; transin-2; stromelysin 2; matrix metalloprotease 10; matrix metalloproteinase-10; matrix metalloproteinase 10 (stromelysin 2)

NCBI Summary for ST2	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades proteoglycans and fibronectin. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008]
UniProt Comments for ST2	MMP10: Can degrade fibronectin, gelatins of type I, III, IV, and V; weakly collagens III, IV, and V. Activates procollagenase. Belongs to the peptidase M10A family. Protein type: EC 3.4.24.22; Secreted, signal peptide; Protease; Extracellular matrix; Secreted Chromosomal Location of Human Ortholog: 11q22.3 Cellular Component: extracellular space; proteinaceous extracellular matrix; extracellular region Molecular Function: zinc ion binding; metalloendopeptidase activity; calcium ion binding Biological Process: collagen catabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; proteolysis; regulation of cell migration
Research Articles on ST2	**1.** MMP-10 was capable of enhancing tissue plasminogen activator-induced fibrinolysis via a thrombin-activatable fibrinolysis inhibitor inactivation-mediated mechanism.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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