

Rat Matrix metalloproteinase 8 (MMP8) ELISA Kit

Catalog No: #EK11967



Package Size: #EK11967-1 48T #EK11967-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Rat Matrix metalloproteinase 8 (MMP8) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	CLG1; HNC; PMNL-CL; PMNL collagenase matrix metalloproteinase 8 matrix metalloproteinase 8 (neutrophil collagenase)
Accession No.	O88766
Uniprot	O88766
GeneID	63849;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.061 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate MMP8 in samples. An antibody specific for MMP8 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMMP8 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MMP8 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MMP8 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**MMP8 degrades fibrillar collagens types I, II, III, aggrecan, serpins and alpha 2 macroglobulin. The substrate specificity of collagenases is variable: MMP1 degrades type III collagen more efficiently than type I or type II collagen, whereas MMP8 is more potent in degrading type I collagen than type III or type II collagen. Unlike other members, MMP8 is expressed exclusively in inflammatory conditions. MMP8 is highly expressed in the postpartum uterus, and it is thought to be involved in the postpartum involution of the uterus. MMP8 is also the predominant collagenase expressed in ulcers and healing wounds. MMP8 is very similar to MMP1, sharing 57 % amino acid identity. MMP8 is heavily glycosylated, and the zymogen has a mass of 85 Kd.

Note: This product is for in vitro research use only