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Datasheet for ABIN6730863 MMP13 ELISA Kit

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Overview

96 tests
MMP13
Human
Sandwich ELISA
0.31 ng/mL - 20 ng/mL
0.31 ng/mL
ELISA
The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of MMP13 in
human serum, plasma, tissue homogenates, cell lysates, cell culture supernates.
We offer validation data (WB) for the kit components . So you can be sure to order a reliable
ELISA kit product composed of high quality reagents.
Cell Culture Supernatant, Cell Lysate, Plasma, Serum, Tissue Homogenate
Quantitative
Colorimetric
This assay has high sensitivity and excellent specificity for detection of Matrix
Metalloproteinase 13 (MMP13)
No significant cross-reactivity or interference between Matrix Metalloproteinase 13 (MMP13)
and analogues was observed.

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Product Details

Sensitivity:	0.113 ng/mL
Components:	Pre-coated, ready to use 96-well strip plate, flat buttom
	Plate sealer for 96 wells
	Reference Standard
	Standard Diluent
	Detection Reagent A
	Detection Reagent B
	Assay Diluent A
	Assay Diluent B
	Reagent Diluent (if Detection Reagent is lyophilized)
	TMB Substrate
	Stop Solution
	Wash Buffer (30 x concentrate)
	Instruction manual

Target Details

Target:	MMP13
Alternative Name:	Matrix Metalloproteinase 13 (MMP13) (MMP13 Products)
UniProt:	P45452

Application Details

Comment:	Information on standard material:
	The standard might be recombinant protein or natural protein, that will depend on the specific
	kit. Moreover, the expression system is E.coli or yeast or mammal cell. There is 0.05% proclin
	300 in the standard as preservative.
	Information on reagents:
	The stop solution used in the kit is sulfuric acid with concentration of 1 mol/L. And the wash
	solution is TBS. The standard diluent contains 0.02 % sodium azide, assay diluent A and assay
	diluent B contain 0.01% sodium azide. Some kits can contain is BSA in them.
	Information on antibodies:
	The provided antibodies and their host vary in different kits.
Sample Volume:	100 µL
Assay Time:	3 h

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Application Details

Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards,
	2. Add 100 μ L standard or sample to each well. Incubate 1 hours at 37 °C,
	3. Aspirate and add 100 μ L prepared Detection Reagent A. Incubate 1 hour at 37 °C,
	4. Aspirate and wash 3 times,
	5. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,
	6. Aspirate and wash 5 times,
	7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,
	8. Add 50µL Stop Solution. Read at 450nm immediately.
Reagent Preparation:	1. Bring all kit components and samples to room temperature (18-25 °C) before use.
	2. Standard - Reconstitute the Standard with 1.0 mL of Standard Diluent, keep for 10 minutes a
	room temperature, shake gently (not to foam). The concentration of the standard in the stoc
	solution is 80 ng/mL. Firstly dilute the stock solution to 20 ng/mL and the diluted standard
	serves as the highest standard (20 ng/mL). Then prepare 7 tubes containing 0.5 mL
	Standard Diluent and use the diluted standard to produce a double dilution series. Mix each
	tube thoroughly before the next transfer. Set up 7 points of diluted standard such as
	20 ng/mL, 10 ng/mL, 5 ng/mL, 2.5 ng/mL, 1.25 ng/mL, 0.625 ng/mL, 0.312 ng/mL, and the
	last microcentrifuge tube with Standard Diluent is the blank as 0 ng/mL.
	3. Detection Reagent A and Detection Reagent B - Briefly spin or centrifuge the stock Detection
	A and Detection B before use. Dilute to the working concentration with Assay Diluent A and E
	respectively (1:100).
	4. Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized
	or distilled water to prepare 600 mL of Wash Solution (1x).
	5. TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not
	dump the residual solution into the vial again.
	Note:
	1. Making serial dilution in the wells directly is not permitted.
	 Prepare standard within 15 minutes before assay. Please do not dissolve the reagents at 37 °C directly.
	3. Please carefully reconstitute Standards or working Detection Reagent A and B according to
	the instruction, and avoid foaming and mix gently until the crystals are completely dissolved.
	To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors
	are calibrated. It is recommended to suck more than $10\mu L$ for once pipetting.
	4. The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used only
	once.
	5. If crystals have formed in the Wash Solution concentrate (30x), warm to room temperature
	and mix gently until the crystals are completely dissolved.
	6. Contaminated water or container for reagent preparation will influence the detection result.
Sample Preparation:	 It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturationmay occur in these samples, leading to false results. Samples should

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Application Details	
	 therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ 3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged toremove precipitates. If the sample type is not specified in the instructions, a preliminary test is necessary to determinecompatibility with the kit. If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a possibility of causing a deviation due to the introduced chemical substance. The recommended dilution factor is for reference only. Please estimate the concentration of the samples before performing the test. If the values are not in therange of the standard curve, the optimal sample dilution for the particular experiment has to be determined. Samples should then be diluted with PBS (pH =7.0-7.2).
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of
	target were tested 20 times on one plate, respectively.
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of
	target were tested on 3 different plates, 8 replicates in each plate.
	CV(%) = SD/meanX100
	Intra-Assay: CV < 10%
	Inter-Assay: CV < 12%
Restrictions:	For Research Use only
Handling	
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and
	clothing protection when using this material.
Storage:	4 °C/-20 °C
Storage Comment:	 For unopened kit: All reagents should be stored according to the labels on the vials. The Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be store at -20 °C upon receipt, while the other reagents should be stored at 4 °C. For opened kits: the remaining reagents must be stored according to the above storage conditions. In addition, please return the unused wells to the foil pouch containing the desiccant and seal the foil pouch with the zipper.

Expiry Date:

6 months

Publications

Product cited in:

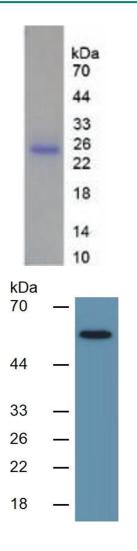
Liao, Wang, Hu, Liu, Shen, Zhang, Yu, Fan, Zhou: "PI-88 inhibits postoperative recurrence of

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Chen, Zhang, Sun, Hu, Lu, Ma: "Unfractionated heparin attenuates intestinal injury in mouse model of sepsis by inhibiting heparanase." in: **International journal of clinical and experimental pathology**, Vol. 8, Issue 5, pp. 4903-12, (2015) (PubMed).

Hammond, Brandt, Dredge: "PG545, a heparan sulfate mimetic, reduces heparanase expression in vivo, blocks spontaneous metastases and enhances overall survival in the 4T1 breast carcinoma model." in: **PLoS ONE**, Vol. 7, Issue 12, pp. e52175, (2013) (PubMed).

Images



SDS-PAGE

Image 1. SDS-PAGE of Protein Standard from the Kit (Highly purified E. coli-expressed recombinant human MMP13).

Western Blotting

Image 2. Rabbit Detection antibody from the kit in WB with Positive Control: Sample Human MCF7 lysate.

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Images

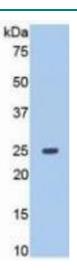


Image 3. WB of Protein Standard: different contantibodies against Highly purified E. coli-express
antibodies against Highly purified E. coli-express
recombinant human MMP13.

Please check the product details page for more images. Overall 5 images are available for ABIN6730863.

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