

Cow Chemokine C-X-C-Motif Receptor 3 (CXCR3) ELISA Kit

Catalogue No.:abx513538

Cow Chemokine C-X-C-Motif Receptor 3 (CXCR3) ELISA Kit is an ELISA Kit for the in vitro quantitative measurement of Cow Chemokine C-X-C-Motif Receptor 3 (CXCR3) concentrations in tissue homogenates, cell lysates and other biological fluids.

Target:	Chemokine C-X-C-Motif Receptor 3 (CXCR3)
Reactivity:	Cow
Tested Applications:	ELISA
Recommended dilutions:	Optimal dilutions/concentrations should be determined by the end user.
Storage:	Shipped at 4 °C. Upon receipt, store the kit according to the storage instruction in the kit's manual.
Validity:	The validity for this kit is 6 months.
Stability:	The stability of the kit is determined by the rate of activity loss. The loss rate is less than 5% within the expiration date under appropriate storage conditions. To minimize performance fluctuations, operation procedures and lab conditions should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same user throughout.
UniProt Primary AC:	Q5MD61 (<u>UniProt</u> , <u>ExPASy</u>)
Gene Symbol:	CXCR3
KEGG:	bta:497018
String:	<u>9913.ENSBTAP00000019690</u>
Test Range:	0.156 ng/ml - 10 ng/ml
Standard Form:	Lyophilized
Detection Method:	Colorimetric
Assay Data:	Quantitative
Sample Type:	Tissue homogenates, cell lysates and other biological fluids.



Assay Principle:	This kit is based on sandwich enzyme-linked immuno-sorbent assay technology. An antibody is pre- coated onto a 96-well plate. Standards, test samples, and biotin-conjugated reagent are added to the wells and incubated. The HRP-conjugated reagent is then added, and the whole plate is incubated. Unbound conjugates are removed using wash buffer at each stage. TMB substrate is used to quantify the HRP enzymatic reaction. After TMB substrate is added, only wells that contain sufficient CXCR3 will produce a blue coloured product, which then changes to yellow after adding the acidic stop solution. The intensity of the yellow colour is proportional to the CXCR3 amount bound on the plate. The Optical Density (OD) is measured spectrophotometrically at 450 nm in a microplate reader, from which the concentration of CXCR3 can be calculated.
Kit Components:	The kit components listed are for reference only. The product manual may differ slightly. The product should be used as stated on the product manual included and delivered together with the product.
	Pre-coated 96-Well Microplate
	Standard
	Standard Diluent Buffer
	Wash Buffer
	Detection Reagent A
	Detection Reagent B
	• Diluent A
	• Diluent B
	TMB Substrate
	Stop Solution
	Plate Sealer
Material Required But	• 37°C incubator
Not Provided:	Multi and single channel pipettes and sterile pipette tips
	Squirt bottle or automated microplate washer
	• 1.5 ml tubes
	Distilled water
	Absorbent filter papers
	100 ml and 1 liter graduated cylinders
	Microplate reader (wavelength: 450 nm)
	ELISA Shaker
Reagent Preparation:	This procedure is provided for reference only. The product manual may differ slightly. The product
	should be used as stated on the product manual included and delivered together with the product.
	• 1) Standard: Prepare the standard with the recommended volume of Standard Diluent Buffer, to
	make the standard solution. Then use the Standard Diluent buffer to carry out serial dilutions of the
	standard solution, as instructed in the Protocol.
	• 2) Wash Buffer: Dilute the concentrated Wash Buffer with distilled water, as instructed in the
	Protocol.
	• 3) Detection Reagent Preparation: Calculate the total volume of working solution required. Dilute

• 3) Detection Reagent Preparation: Calculate the total volume of working solution required. Dilute Detection Reagent A and Detection Reagent B with Diluent A and Diluent B, respectively, at 1:100.

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