

## Rat Syndecan 4 (SDC4) ELISA Kit

Catalog No: #EK7423



Package Size: #EK7423-1 48T #EK7423-2 96T

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## Description

Product Name	Rat Syndecan 4 (SDC4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	MGC22217; SYND4; amphiglycan ryudocan amphiglycan ryudocan core protein syndecan 4 (amphiglycan; ryudocan) syndecan proteoglycan 4
Accession No.	P34901
Uniprot	P34901
GenID	24771;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:31.25-2000 pg/mL

Sensitivity:13.8 pg/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 SDC4 in samples. An antibody specific for SDC4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySDC4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SDC4 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 SDC4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Syndecan-4 is a transmembrane (type I) heparan sulfate proteoglycan that functions as a receptor in intracellular signaling. The protein is found as a homodimer and is a member of the syndecan proteoglycan family. Syndecan4 is upregulated in osteoarthritis and inhibition of syndecan 4 reduces cartilage destruction in mouse models of OA. Syndecans, including SDC4, can function as in trans HIV receptors via binding of HIV-1 gp120 to the syndecan heparan sulfate chains. Flow cytometric analysis demonstrated SDC expression on endothelial cells. HIV bound to SDC on endothelial cell lines maintained its infectivity for at least 1 week, compared with less than 1 day for unbound virus.

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Note: This product is for in vitro research use only