

## Rat Keratin, type I cytoskeletal 18 (KRT18) ELISA Kit

Catalog No: #EK10178



Package Size: #EK10178-1 48T #EK10178-2 96T

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## Description

Product Name	Rat Keratin, type I cytoskeletal 18 (KRT18) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	CYK18; K18; cell proliferation-inducing protein 46 cytokeratin 18
Accession No.	Q5BJY9
Uniprot	Q5BJY9
GeneID	294853;
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:0.156-10 ng/mL

Sensitivity:0.058 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 KRT18 in samples. An antibody specific for KRT18 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKRT18 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KRT18 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 KRT18 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Keratin 18 is a type I cytokeratin. It is, together with its filament partner keratin 8, perhaps the most commonly found products of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene.

Human keratin 18 and the homologous mouse Endo B are type I IF protein subunits whose expression is restricted in adults to a variety of simple epithelial tissues. Endo B and its coexpressed type II keratin, Endo A (the mouse equivalent of human keratin 8), appear to be the first IF proteins expressed during murine development.

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Note: This product is for in vitro research use only