

# Human Keratin, type I cytoskeletal 40 (KRT40) ELISA Kit



Catalog No: #EK10173

Orders: order@signalwayantibody.com

Package Size: #EK10173-1 48T #EK10173-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Keratin, type I cytoskeletal 40 (KRT40) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ36600; KA36; OTTHUMP00000164963 type I hair keratin KA36
Accession No.	A7YWM2
Uniprot	A7YWM2
GeneID	538611;
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:0.064 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 KRT40 in samples. An antibody specific for KRT40 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKRT40 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KRT40 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 KRT40 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**KRT40 encodes a member of the type I (acidic) keratin family, which belongs to the superfamily of intermediate filament (IF) proteins. Keratins are heteropolymeric structural proteins which form the intermediate filament. These filaments, along with actin microfilaments and microtubules, compose the cytoskeleton of epithelial cells. The type I keratin genes are clustered in a region of chromosome 17q12-q21.

Keratins are intermediate filament-forming proteins that provide mechanical support and fulfill a variety of additional functions in epithelial cells. In 1982, a nomenclature was devised to name the keratin proteins that were known at that point. The systematic sequencing of the human genome in recent years uncovered the existence of several novel keratin genes and their encoded proteins.

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Note: This product is for in vitro research use only