

# Human Keratin, type I cuticular Ha3-I (KRT33A) ELISA Kit



Catalog No: #EK10175

Orders: order@signalwayantibody.com

Package Size: #EK10175-1 48T #EK10175-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Keratin, type I cuticular Ha3-I (KRT33A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	HA3I; Ha-3I; KRTHA3A; Krt1-3; hHa3-I; hard keratin; type I;3I keratin; hair; acidic; 3A
Accession No.	O76009
Uniprot	O76009
GeneID	3883;
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:78.1-5000 pg/mL

Sensitivity:29 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 KRT33A in samples. An antibody specific for KRT33A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKRT33A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KRT33A 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 KRT33A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**KRT33A is a member of the keratin gene family. It is one of the type I hair keratin genes which are clustered in a region of chromosome 17q12-q21 and have the same direction of transcription. As a type I hair keratin, it is an acidic protein which heterodimerizes with type II keratins to form hair and nails. There are two isoforms of this protein, encoded by two separate genes, KRTHA3A and KRTHA3B.

Rogers et al. (1998) reported that the deduced KRTHA3A protein has 405 amino acids and shares 93.3% amino acid sequence identity with KRTHA3B. By RT-PCR, Rogers et al. (1998) showed that KRTHA3A is expressed in the human hair follicle. See Langbein et al. (1999) for further details on the expression pattern of the KRTHA3A gene in the hair follicle.

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Note: This product is for in vitro research use only