

Human Cytokeratin 17 (CK-17) ELISA Kit

Catalog No: #EK10180



Package Size: #EK10180-1 48T #EK10180-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Human Cytokeratin 17 (CK-17) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	K17; PC; PC2; PCHC1; cytokeratin-17
Accession No.	Q04695
Uniprot	Q04695
GeneID	3872;
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:30 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 KRT17 in samples. An antibody specific for KRT17 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKRT17 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KRT17 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 KRT17 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Keratin 17 is found in nail beds, hair follicles, sebaceous glands, and other epidermal appendages. Mutations in the gene encoding this protein lead to Jackson-Lawler type pachyonychia congenita and steatocystoma multiplex.The functional KRT17 gene differs from the pseudogenes by the extent of methylation of certain DNA sequences in the 5-prime upstream region. The KRT17 gene encodes a polypeptide of 432 amino acids with a calculated molecular weight of 48,000. Using S1-nuclease protection assays and RNAs from several cell lines, Troyanovsky et al. identified a single transcriptional start point 26 nucleotides downstream from a TATA box element. Synthesis of cytokeratin-17 seems to be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial 'stem cell.'

Note: This product is for in vitro research use only