

## Human Cornulin (CRNN) ELISA Kit

Catalog No: #EK11287



Package Size: #EK11287-1 48T #EK11287-2 96T

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## Description

Product Name	Human Cornulin (CRNN) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	C1orf10; DRC1; PDRC1; SEP53; 53 kDa squamous epithelial-induced stress protein squamous epithelial heat shock protein 53 tumor-related protein
Accession No.	Q9UBG3
Uniprot	Q9UBG3
GeneID	49860;
Storage	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.  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).

## Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.112 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 CRNN in samples. An antibody specific for CRNN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCRNN present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CRNN 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 CRNN bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Cornulin is a member of the 'fused gene' family of proteins, which contain N-terminus EF-hand domains and multiple tandem peptide repeats. The encoded protein contains two EF-hand Ca<sup>2+</sup> binding domains in its N-terminus and two glutamine- and threonine-rich 60 amino acid repeats in its C-terminus. This gene, also known as squamous epithelial heat shock protein 53, may play a role in the mucosal/epithelial immune response and epidermal differentiation.

The C1ORF10 cDNA encodes a deduced 490-amino acid protein with 1 transmembrane domain, an N-terminal EF-hand calcium-binding motif of about 90 amino acids that shares 25 to 35% identity to human S100 calcium-binding proteins, and a conserved consecutive repeat sequence of about 60 amino acids.

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Note: This product is for in vitro research use only