

Human Calumenin (CALU) ELISA Kit

Catalog No: #EK11316



Package Size: #EK11316-1 48T #EK11316-2 96T

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Description

Product Name	Human Calumenin (CALU) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ90608; crocalbin-like protein multiple EF-hand protein
Accession No.	O43852
Uniprot	O43852
GeneID	813;
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:0.625-40 ng/mL

Sensitivity:0.263 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 CALU in samples. An antibody specific for CALU has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCALU present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CALU 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 CALU bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Calumenin (CALU) is a calcium-binding protein localized in the endoplasmic reticulum (ER) and is involved in such ER functions as protein folding and sorting. Calumenin is a member of the EF-hand superfamily in the ER and Golgi apparatus named CERC. CERC is an acronym for its family members Cab-45, reticulocalbin, Erc-55, and calumenin.

The CALU gene encodes a deduced 315-amino acid protein containing 6 EF-hand motifs, 1 potential N-glycosylation site, and a C-terminal ER retention signal. The human and mouse CALU proteins are 98% identical. CALU mRNA is ubiquitously expressed in human tissues and maps to 7q32.

Note: This product is for in vitro research use only