Human Reticulocalbin-2 (RCN2) ELISA Kit

Catalog No: #EK7554

Package Size: #EK7554-1 48T #EK7554-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Reticulocalbin-2 (RCN2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	E6BP; ERC-55; ERC55; TCBP49; reticulocalbin 2|reticulocalbin 2; EF-hand calcium binding domain (endoplasmic reticulum calcium-binding protein; 55kD)
Accession No.	Q14257
Uniprot	Q14257
GeneID	5955;
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:0.114 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 RCN2 in samples. An antibody specific for RCN2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyRCN2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RCN2 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 RCN2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Reticulocalbin 2 is a calcium-binding protein located in the lumen of the ER, contains six conserved regions with similarity to a high affinity Ca(+2)-binding motif, the EF-hand. The predicted 317-amino acid RCN2 protein contains an N-terminal signal sequence, 6 copies of the EF-hand motif, and a C-terminal His-Asp-Glu-Leu (HDEL) sequence, which was originally defined as an ER retention motif in yeast proteins. Immunocytolocalization and cell fractionation studies demonstrated that RCN2 is a resident ER protein; the HDEL motif is required for its ER retention. RCN2 was detected by antibodies in all cell lines tested. It binds calcium in vitro. By Western blotting, in vitro translated RCN2 protein has a molecular mass of 55 kD, leading the authors to designate it the 'endoplasmic reticulum calcium-binding protein of 55 kD' (ERC55).

Note: This product is for in vitro research use only