

Human Reticulocalbin-2 (RCN2) ELISA Kit | RCN2 elisa kit

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CATALOG #
AAA331012

REACTIVITY
Human

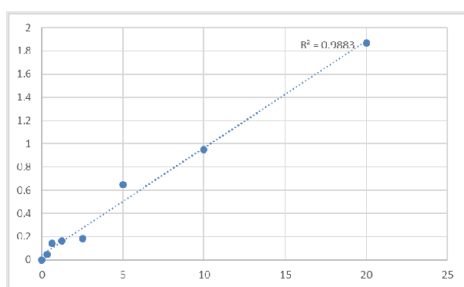
PRODUCT SYNONYMS

Reticulocalbin-2 (RCN2); Human Reticulocalbin-2 (RCN2) ELISA Kit; RCN2; E6BP; ERC-55; ERC55; TCBP49; reticulocalbin 2; EF-hand calcium binding domain (endoplasmic reticulum calcium-binding protein; 55kD); RCN2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Reticulocalbin-2 (RCN2) ELISA Kit has high sensitivity and excellent specificity for detection of Human RCN2. No significant cross-reactivity or interference between Human RCN2 and analogues was observed.
Sequence Length	317
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Reticulocalbin-2 (RCN2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for RCN2 elisa kit	Description: This Human Reticulocalbin-2 (RCN2) ELISA Kit 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 any RCN2 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. Background: 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. Immunocytochemicalization 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).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2493460
NCBI GeneID	5955
UniProt Accession #	Q14257
NCBI Official Full Name	Reticulocalbin-2
NCBI Official Synonym Full Names	reticulocalbin 2
NCBI Official Symbol	RCN2
NCBI Official Synonym Symbols	E6BP; ERC55; ERC-55; TCBP49
NCBI Protein Information	reticulocalbin-2
UniProt Protein Name	Reticulocalbin-2
UniProt Gene Name	RCN2
UniProt Synonym Gene Names	ERC55; E6BP
UniProt Entry Name	RCN2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.