

Rat Secretagogin (SCGN) ELISA Kit

Catalog No: #EK7436



Package Size: #EK7436-1 48T #EK7436-2 96T

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Description

Product Name	Rat Secretagogin (SCGN) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	CALBL; DJ501N12.8; SECRET; SEGN; setagin; calbindin-like secretagogin
Accession No.	Q6R556
Uniprot	Q6R556
GeneID	306942;
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:61.73-5000 pg/mL

Sensitivity:24.7 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 SCGN in samples. An antibody specific for SCGN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySCGN present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SCGN 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 SCGN bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**SCGN contains 6 tandem repeats of the EF-hand Ca(2+)-binding domain, with a loop at all 6 putative Ca(2+)-binding sites, and shares significant similarity with calbindin and calretinin. Much lower expression of only the smaller transcript was detected in adrenal medulla, stomach, thyroid, colon, and small intestine.

Immunohistochemical analysis showed SCGN expression restricted to the islet of Langerhans in pancreas, in C cells near thyroid follicles, and at sites typically occupied by neuroendocrine cells in all other tissues examined. Cell fractionation and confocal imaging of transfected rat insulinoma cells detected Scgn predominantly in the cytosolic fraction, with much less Scgn in nuclei. SCGN was expressed in a reticular pattern in transfected COS cells.

Note: This product is for in vitro research use only