Product Datasheet

Human Synaptonemal complex protein 3 (SYCP3) ELISA Kit

Catalog No: #EK6726

Package Size: #EK6726-1 48T #EK6726-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Synaptonemal complex protein 3 (SYCP3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	COR1; MGC71888; SCP3; OTTHUMP00000196389|OTTHUMP00000196390
Accession No.	Q8IZU3
Uniprot	Q8IZU3
GeneID	50511;
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:15.6-1000 pg/mL

Sensitivity:5.8 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 SYCP3 in samples. An antibody specific for SYCP3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySYCP3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SYCP3 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 SYCP3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:SYCP3 encodes an essential structural component of the synaptonemal complex. This complex is involved in synapsis, recombination and segregation of meiotic chromosomes. Mutations in this gene are associated with azoospermia in males and susceptibility to pregnancy loss in females. Alternate splicing results in multiple transcript variants that encode the same protein.

Three meiosis-specific components of the SC have been characterized in mammals, SC protein-1 (SYCP1), SYCP2, and SYCP3. SYCP3 has a molecular mass of 30 kD and a C-terminal coiled-coil domain that has been shown to promote homotypic interactions in vitro; the SYCP3 gene has been cloned in mouse, rat, and hamster.

Note: This product is for in vitro research use only