

# Human Meiotic recombination protein SPO11 (SPO11) ELISA Kit

Catalog No: #EK6575

Orders: order@signalwayantibody.com

Package Size: #EK6575-1 48T #EK6575-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Meiotic recombination protein SPO11 (SPO11) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CT35; MGC39953; SPO11 meiotic protein covalently bound to DSB-like SPO11; meiotic protein covalently bound to DSB-like cancer/testis antigen 35 meiotic recombination protein SPO11
Accession No.	Q9Y5K1
Uniprot	Q9Y5K1
GeneID	23626;
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:Request Information

Sensitivity:Request Information

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 SPO11 in samples. An antibody specific for SPO11 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySPO11 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SPO11 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 SPO11 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**SPO11 is similar in sequence and conserved features to the yeast meiotic recombination protein. The encoded protein belongs to the TOP6A protein family. Several transcript variants encoding different isoforms have been found for this gene, but the full-length nature of only two of them have been described. The human and the mouse SPO11 proteins share 82% amino acid identity, but only 20 to 30% with other eukaryotic homologs such as Drosophila and C. elegans. Both the mouse and human SPO11 exons 2 and 8 are subject to alternative splicing. Northern blot analysis showed that mouse Spo11 is expressed in testis and thymus as a 1.8-kb mRNA, whereas human SPO11 is expressed in testis as a 2.0-kb transcript. RT-PCR revealed that human SPO11 is also expressed in prostate, fetal testis, thymus, and some carcinoma cell lines.

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Note: This product is for in vitro research use only