

Human Meiotic Recombination Protein SPO11 (SPO11) ELISA Kit | SPO11 elisa kit

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CATALOG #
AAA330550

REACTIVITY
Human

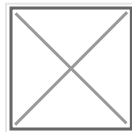
PRODUCT SYNONYMS

Meiotic Recombination Protein SPO11 (SPO11); Human Meiotic Recombination Protein SPO11 (SPO11) ELISA Kit; SPO11; CT35; MGC39953; SPO11 meiotic protein covalently bound to DSB-like; meiotic protein covalently bound to DSB-like; cancer/testis antigen 35; meiotic recombination protein SPO11; SPO11 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Meiotic recombination protein SPO11 (SPO11) ELISA Kit has high sensitivity and excellent specificity for detection of Human SPO11. No significant cross-reactivity or interference between Human SPO11 and analogues was observed.
Sequence Length	396
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 Meiotic recombination protein SPO11 (SPO11) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SPO11 elisa kit	Description: This Human Meiotic recombination protein SPO11 (SPO11) ELISA Kit 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 any SPO11 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. Background: 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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NCBI AND UNIPROT INFORMATION

NCBI GI #	6912680
NCBI GeneID	23626
NCBI Accession #	NP_036576
NCBI GenBank Nucleotide #	NP_036576.1
UniProt Accession #	Q9Y5K1
NCBI Official Full Name	meiotic recombination protein SPO11 isoform a
NCBI Official Synonym Full Names	SPO11 initiator of meiotic double stranded breaks
NCBI Official Symbol	SPO11
NCBI Official Synonym Symbols	CT35; TOPVIA; SPATA43
NCBI Protein Information	meiotic recombination protein SPO11
UniProt Protein Name	Meiotic recombination protein SPO11
UniProt Gene Name	SPO11
UniProt Synonym Gene Names	CT35
UniProt Entry Name	SPO11_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.