

Mouse Sperm mitochondrial-associated cysteine-rich protein (SMCP) ELISA Kit



Catalog No: #EK11370

Orders: order@signalwayantibody.com

Package Size: #EK11370-1 48T #EK11370-2 96T

Support: tech@signalwayantibody.com

Description

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|--------------------|--|
| Product Name | Mouse Sperm mitochondrial-associated cysteine-rich protein (SMCP) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Mouse (<i>Mus musculus</i>) |
| Other Names | HSMCSGEN1; MCS; MCSP; MGC26305; MGC26519; mitochondrial capsule selenoprotein |
| Accession No. | P15265 |
| Uniprot | P15265 |
| GeneID | 17235; |
| 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:78.1-5000 pg/mL

Sensitivity:31 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 SMCP in samples. An antibody specific for SMCP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySMCP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SMCP 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 SMCP bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The MMP15 cDNA encodes a 669-amino acid protein that has the typical structural features of an MMP. In addition, it contains a predicted transmembrane segment at the C terminus. MMP15 shares 73.9% sequence similarity with MMP14, a membrane-localized MMP that also contains a C-terminal transmembrane segment. the membrane-type MMPs are a subclass in the MMP family since the other members lack a C-terminal transmembrane domain and are secreted as soluble forms. Will and Hinzmann showed by immunoblotting that MMP15-specific antibodies detect a 72-kD protein in lung cell surface membranes, suggesting that MMP15 is membrane-bound. They demonstrated by Northern blotting that MMP15 is widely expressed as a 3.6-kb transcript, with highest levels in liver, placenta, testis, colon, and intestine.

Note: This product is for in vitro research use only