

Mouse Doublesex- and mab-3-related transcription factor C1 (DMRTC1) ELISA Kit

Catalog No: #EK10572

Package Size: #EK10572-1 48T #EK10572-2 96T

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Description

Product Name	Mouse Doublesex- and mab-3-related transcription factor C1 (DMRTC1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	RP11-69A21.1; doublesex-mab-3
Accession No.	Q9D9R7
Uniprot	Q9D9R7
GeneID	70887;
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:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 μ L

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 DMRTC1 in samples. An antibody specific for DMRTC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDMRTC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DMRTC1 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 DMRTC1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:DMRTC1 (DMRT-like family C1) is a 182 amino acid nuclear protein that exists as three alternatively spliced isoforms and belongs to the DMRT family. Involved in sexual development, DMRTC1 is expressed in Sertoli cells in male testis but, unlike other DMRT family members, it does not contain a DM DNA-binding domain. Highly expressed in ovary and testis. Detected in brain and in many other tissues. The gene encoding DMRTC1 maps to the human X chromosome, which consists of about 153 million base pairs and nearly 1,000 genes. The combination of an X and Y chromosome lead to normal male development while two copies of X lead to normal female development. There are a number of conditions related to an unusual number and combination of sex chromosomes being inherited, including Klinefelters syndrome, Turners syndrome, and Triple X syndrome.

Note: This product is for in vitro research use only