

# Mouse Doublesex- and mab-3-related transcription factor 3 (DMRT3) ELISA Kit

Catalog No: #EK10580

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Package Size: #EK10580-1 48T #EK10580-2 96T

## Description

Product Name	Mouse Doublesex- and mab-3-related transcription factor 3 (DMRT3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	DMRTA3; MGC142144; DMRT-like family A3 testis-specific protein
Accession No.	Q80WT2
Uniprot	Q80WT2
GeneID	240590;
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  $\mu$ 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 DMRT3 in samples. An antibody specific for DMRT3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDMRT3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DMRT3 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 DMRT3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Vertebrate DM domain genes encode a novel group of proteins related to the *Drosophila* doublesex and *Caenorhabditis elegans* mab-3 transcription factors. It is shown here that the recently identified gene, DMRT3, has a restricted embryonic expression profile that is conserved in chicken and mouse embryos. DMRT3 is expressed primarily in the forebrain, neural tube and nasal placode of both species. In the chicken, DMRT3 is also expressed in newly forming tail somites at early developmental stages and, later, in the Mullerian ducts of the urogenital system.The sequence of this gene is defined by 14 GenBank accessions from 13 cDNA clones, some from colon, PCR rescued clones (seen 2 times), thalamus (2), colon (once), colon tumor RER+ (once), lung (once), parathyroid gland (once), parathyroid tumor (once) and 4 other tissues.

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Note: This product is for in vitro research use only