# Mouse Paired box protein Pax-1 (PAX1) ELISA Kit

Catalog No: #EK11476

Package Size: #EK11476-1 48T #EK11476-2 96T

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## Description

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| Product Name | Mouse Paired box protein Pax-1 (PAX1) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Mouse (Mus musculus) |
| Other Names | RP5-1065O2.3; HUP48; paired box gene 1\|paired domain gene HuP48 |
| Accession No. | P09084 |
| Uniprot | P09084 |
| GeneID | 18503; |
| 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.<br>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:0.156-10 ng/mL

Sensitivity:0.057 ng/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 PAX1 in samples. An antibody specific for PAX1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPAX1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PAX1 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 PAX1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The PAX genes, including PAX1, are a highly conserved family of developmental control genes that encode transcription factors and have been shown to play a role in pattern formation during embryogenesis in vertebrates .
The deduced 440-residue protein has a calculated molecular mass of 45.7 kD. PAX1 has an extra 70-amino acids 5-prime to the paired box domain compared to mouse Pax1. They noted that PAX1 shows greatest similarity to PAX9.Deutsch et al. (1988) identified a 3.1 kb-Pax 1 transcript during murine embryonic development, whereas no transcripts were detected in adult mouse tissues. Detailed in situ hybridization analysis with frozen embryonic sections demonstrated Pax1 transcripts in the perichordal zone of the developing vertebral column.

Note: This product is for in vitro research use only