

# Mouse Replication initiator 1 (REPIN1) ELISA Kit

Catalog No: #EK7534



Package Size: #EK7534-1 48T #EK7534-2 96T

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## Description

Product Name	Mouse Replication initiator 1 (REPIN1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	AP4; RIP60; ZNF464; Zfp464; H_DJ0584D14.12 replication initiation region protein (60kD) zinc finger protein 464 (RIP60) zinc finger protein AP4 zinc finger proten AP4
Accession No.	Q5U4E2
Uniprot	Q5U4E2
GeneID	58887;
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:0.312-20 ng/mL

Sensitivity:0.135 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 REPIN1 in samples. An antibody specific for REPIN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyREPIN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for REPIN1 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 REPIN1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Replication initiator 1 is a protein encoded by the REPIN1 gene. Homodimers of RIP60 (replication initiation-region protein 60 kDA) purified from nuclear extract bind two ATT-rich sites in oribeta and foster the formation of a twisted 720 bp DNA loop in vitro.

RIP60 contains 15 C(2)H(2)zinc finger (ZF) DNA binding motifs organized in three clusters, termed hand Z1 (ZFs 1-5), hand Z2 (ZFs 6-8) and hand Z3 (ZFs 9-15). A proline-rich region is located between hands Z2 and Z3. Gel mobility shift and DNase I footprinting experiments show hands Z1 and Z2 independently bind the oribeta RIP60 sites specifically, but with different affinities. Hand Z3 binds DNA, but displays no specificity for RIP60 sites.

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Note: This product is for in vitro research use only