

# Mouse RAD51-associated protein 1 (RAD51AP1) ELISA Kit

Catalog No: #EK11390

Orders: order@signalwayantibody.com

Package Size: #EK11390-1 48T #EK11390-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Mouse RAD51-associated protein 1 (RAD51AP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	PIR51; RAD51-interacting protein
Accession No.	Q8C551
Uniprot	Q8C551
GeneID	19362;
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:

0.156-10 ng/mL

Sensitivity:0.059 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 RAD51AP1 in samples. An antibody specific for RAD51AP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyRAD51AP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RAD51AP1 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 RAD51AP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**RAD51AP1 specifically stimulated joint molecule formation through structure-specific DNA binding and physical contact with RAD51. RAD51AP1 was required to protect HeLa cells from agents that cause DNA double-strand breaks. At the biochemical level, RAD51AP1 had selective affinity for branched DNA structures, and it stimulated D loop formation by RAD51, a pivotal step in recombination.

The predicted PIR51 protein has 335 amino acids and a calculated pI of 9.95. The authors suggested that PIR51 is the human homolog of mouse Rab22 since the 2 proteins share 63% sequence identity. Northern blot analysis revealed that PIR51 is expressed as a 2.4-kb mRNA in human testis and thymus, and at lower levels, in colon and small intestine.

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Note: This product is for in vitro research use only