

Rat tumor protein p53 ELISA Kit | TP53 elisa kit

Rat p53/tumor protein, p53/TP53 ELISA Kit

CATALOG #
AAA79669

REACTIVITY
Rat

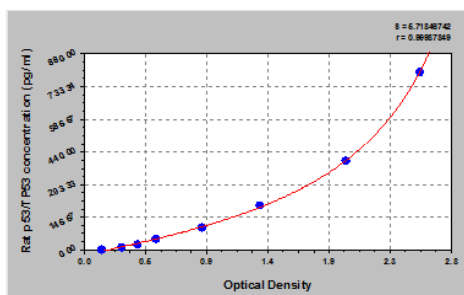
PRODUCT SYNONYMS

tumor protein p53; Rat p53/tumor protein; p53/TP53 ELISA Kit; FLJ92943; LFS1; TRP53; p53; p53 antigen; p53 transformation suppressor; p53 tumor suppressor; phosphoprotein p53; transformation-related protein 53; TP53 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat TP53. No significant cross-reactivity or interference between Rat TP53 and analogues was observed.
Sequence Length	391
Samples	Serum, plasma, tissue homogenates
Detection Range	12.5 pg/ml-800 pg/ml
Sensitivity	3.12 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Apoptosis/Autophagy
Protein Biological Process 3	Apoptosis
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TP53 elisa kit	Introduction: P53 (also known as protein 53 or tumor protein 53), is a tumor suppressor protein that in humans is encoded by the TP53 gene. p53 is important in multicellular organisms, where it regulates the cell cycle and, thus, functions as a tumor suppressor that is involved in preventing cancer. As such, p53 has been described as "the guardian of the genome", the "guardian angel gene", and the "master watchman", referring to its role in conserving stability by preventing genome mutation. The name p53 is in reference to its apparent molecular mass: It runs as a 53-kilodalton (kDa) protein on SDS-PAGE. But, based on calculations from its amino acid residues, p53's mass is actually only 43.7 kDa. This difference is due to the high number of proline residues in the protein, which slow its migration on SDS-PAGE, thus making it appear heavier than it actually is. This effect is observed with p53 from a variety of species, including humans, rodents, frogs, and fish. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to p53/TP53. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for p53/TP53 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain p53/TP53, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of p53/TP53 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	126722898
NCBI GeneID	100009292
NCBI Accession #	NP_001075873.1
NCBI GenBank Nucleotide #	NM_001082404.1
UniProt Accession #	Q95330
Molecular Weight	43,435 Da
NCBI Official Full Name	cellular tumor antigen p53
NCBI Official Symbol	TP53
NCBI Protein Information	cellular tumor antigen p53; tumor suppressor p53
UniProt Protein Name	Cellular tumor antigen p53
UniProt Gene Name	TP53
UniProt Entry Name	P53_RABIT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.