

Human Tumor Protein p53 ELISA Kit | TP53 elisa kit

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CATALOG #
AAA102422

REACTIVITY
Human

PRODUCT SYNONYMS

Tumor Protein p53; Human Tumor Protein p53 ELISA Kit; TP53/BCC7/LFS1/TRP53/Antigen NY-CO-13/FLJ92943/LFS1TRP53/p53/p53 tumor suppressor/P53cellular tumor antigen p53/Phosphoprotein p53/transformation-related protein 53/tumor protein p53/Tumor suppressor p53; TP53 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of TP53. No significant cross-reactivity or interference between TP53 and analogues was observed.
Sequence Length	393
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TP53 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TP53 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a TP53 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A/not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.038	0.388	0.687	0.956	1.501	1.85	2.228	2.225

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TP53 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-TP53 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- TP53 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the TP53 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of TP53 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13097807
NCBI GeneID	7157
Molecular Weight	24,401 Da
NCBI Official Full Name	Tumor protein p53
NCBI Official Synonym Full Names	tumor protein p53
NCBI Official Symbol	TP53
NCBI Official Synonym Symbols	P53; BCC7; LFS1; TRP53
NCBI Protein Information	cellular tumor antigen p53
UniProt Protein Name	Cellular tumor antigen p53
UniProt Gene Name	TP53
UniProt Synonym Gene Names	P53
UniProt Entry Name	P53_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/tp53-human-elisa-kits/tumor-protein-p53/102422>