Human Tumor suppressor p53-binding protein 1 (TP53BP1) ELISA Kit

Catalog No: #EK6045

Package Size: #EK6045-1 48T #EK6045-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Tumor suppressor p53-binding protein 1 (TP53BP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	53BP1; FLJ41424; MGC138366; p202; tumor protein 53-binding protein; 1|tumor protein p53-binding protein; 1
Accession No.	Q12888
Uniprot	Q12888
GeneID	7158;
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. 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:0.312-20 ng/mL

Sensitivity:0.138 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 TP53BP1 in samples. An antibody specific for TP53BP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTP53BP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TP53BP1 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 TP53BP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TP53BP1 has a predicted molecular mass of 217 kD and shows homology in its C-terminal 247 amino acids to the C terminus of the tumor suppressor protein BRCA1. TP53BP1 was present in both the cytoplasm and nucleus in some cells and only in the nucleus in others. Furthermore, there were 2 nuclear staining patterns, one homogeneous staining and the other dot staining.TP53BP1 was required for p53 accumulation, G2/M checkpoint arrest, and the intra-S-phase checkpoint in response to ionizing radiation. TP53BP1 played a partially redundant role in phosphorylation of the downstream checkpoint effector proteins BRCA1 and CHK2 but was required for the formation of BRCA1 foci in a hierarchical branched pathway for the recruitment of repair and signaling proteins to sites of DNA damage.

Note: This product is for in vitro research use only