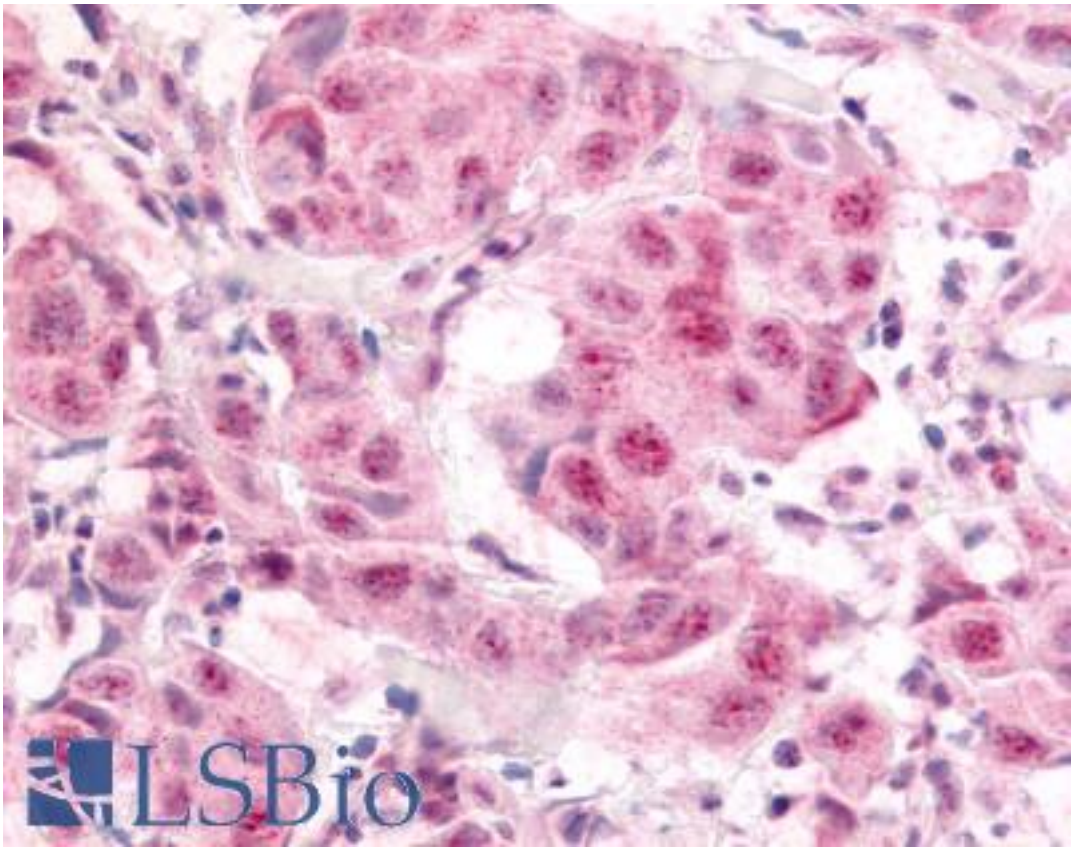
LSBio
LifeSpan BioSciences, Inc.

E2F1 Rabbit anti-Human Polyclonal (pSer364) Antibody - LS-B52 - LSBio

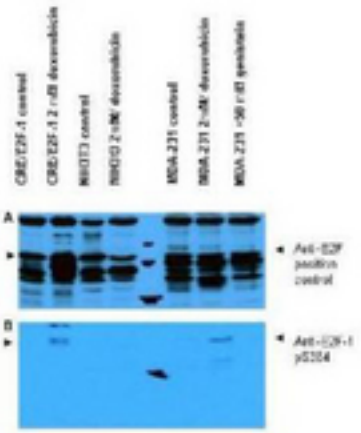
CatalogID:	LS-B52
Validation:	This antibody replaces catalog number LS-C18900. It has been validated for use in the following assays: IHC.
Target:	E2F transcription factor 1 (E2F1)
Synonyms:	E2F1 Antibody, E2F transcription factor 1 Antibody, PRB-binding protein E2F-1 Antibody, RBAP-1 Antibody, RBBP3 Antibody, RBBP-3 Antibody, Transcription factor E2F1 Antibody, RBAP1 Antibody, E2F-1 Antibody, PBR3 Antibody
Host	E2F1 antibody was produced in Rabbit
Clonality:	Polyclonal
Immunogen Species:	E2F1 antibody was raised against Human
Antigen Type:	Synthetic peptide
Immunogen:	E2F1 antibody was raised against synthetic peptide from human E2F1.
Specificity:	Amino acids 360-369 of Human E2F-1.
Epitope:	pSer364
Reactivity:	Human, Chimpanzee
Purification:	Immunoaffinity purified
Presentation:	0.02 M potassium phosphate, 0.15 M sodium chloride, pH 7.2, 0.01% sodium azide.
Recommended Storage:	+4°C or -20°C, Avoid repeated freezing and thawing.
Usage Summary:	Immunohistochemistry: LS-B52 was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for LS-B52 was determined to be 10 ug/ml.
Uses:	IHC - Paraffin (10 µg/ml), Western blot (1:250 - 1:2000), ELISA (1:20000 - 1:100000) (Optimal dilution to be determined by the researcher)
Size:	50 µg
Concentration:	1 mg/ml

Immunohistochemistry Image:



Anti-E2F1 antibody IHC of human breast carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody LS-B52 concentration 10 ug/ml.

Western Blot Image:



Western blot of Affinity Purified anti-E2F-1 pS364 antibody shows detection of a band at ~47 kD corresponding to phosphorylated E2F-1 in induced cell lysates. Panel A shows reactivity using a control antibody reactive to all forms of E2F (arrowheads). Panel B shows specific reactivity against phosphorylated E2F-1 (arrowheads) using our anti-E2F-1 pS364 antibody. Lysates are as follows: CRE/E2F-1 are CRE cells derived from mouse NIH3T3 line transfected with human E2F-1, NIH-3T3 used as a negative control, and MDA-MB-231 cells are a human breast cancer line. As indicated each lysate was prepared from untreated cells and cells treated with 2 uM Doxorubicin used as a DNA damaging agent. In addition the MDA -MB-231 cells were also treated with genistein, a mild DNA damaging agent. The figure shows the same membrane first probed with the anti-E2F-1 pS364 antibody used at a 1:250 dilution, then stripped and re-probed with the pan E2F antibody used as a positive control. The positive control antibody clearly shows an E2F-1 band in all human cell lines, but not mouse cells. Treatment with doxorubicin increases expression of E2F-1 as shown in Panel A. Images were overlapped to confirm that anti-E2F-1 pS364 staining shown treated human cells in Panel B specifically aligns with E2F-1 staining shown in Panel A. Blots can be processed with HRP conjugated Gt-a-Rabbit IgG MX10 LS-C60865 for 45 min at room temperature for ECL detection. Personal Communication, XiaoHe Yang, Univ. Oklahoma.

Requested From:	Japan