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Datasheet for ABIN129619 anti-E2F1 antibody (pSer364)

2 Images



Overview

Quantity:	100 µg
Target:	E2F1
Binding Specificity:	pSer364
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)
Product Details	
Purpose:	E2F-1 phospho S364 Antibody
Immunogen:	Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acids 350-375 of Human E2F-1. Immunogen Type: Conjugated Peptide
Isotype:	lgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against the phosphorylated form of human E2F-1 at the pS364 residue.
Characteristics:	Synonyms: rabbit anti-E2F-1 pS364 Antibody, E2F 1 antibody, transcription factor E2F1 antibody, E2F1 antibody, E2F transcription factor 1 antibody, PBR 3 antibody, PBR3 antibody, Retinoblastoma binding protein 3, RBBP-3, pRB-binding protein E2F-1, Retinoblastoma- associated protein 1, RBAP-1

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Product Details	
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered
Target Details	
Target:	E2F1
Alternative Name:	E2F1 (E2F1 Products)
Background:	Background: E2F-1 (also known as transcription factor E2F-1) is a transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3'. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several domains conserved through evolution that are found in most members of the family. These domains include a DNA binding domain, a dimerization domain, a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein

	transcription factor and DNA binding research.
Gene ID:	1869, 12669911
UniProt:	Q01094
Pathways:	p53 Signaling, Cell Division Cycle, Mitotic G1-G1/S Phases, DNA Replication, M Phase, Autophagy

association domain which is embedded within the transactivation domain. This protein and two

other members, E2F2 and E2F3, have an additional cyclin binding domain. This protein binds

preferentially to retinoblastoma protein pRB in a cell-cycle dependent manner. It can mediate

both cell proliferation and p53-dependent/independent apoptosis as well as it can block

target gene promoters. Anti-E2F-1 pS364 Antibody is useful for researchers involved in

adipocyte differentiation by binding to specific promoters repressing CEBPA binding to its

Application Details

Application Notes:	Immunohistochemistry Dilution: 2 mg/mL - 20 µg/mL
	Application Note: This affinity purified antibody has been tested for use in ELISA,
	immunohistochemistry and by western blot. Specific conditions for reactivity should be
	optimized by the end user. Expect a band approximately 47 kDa in size corresponding to
	phosphorylated E2F-1 by western blotting in the appropriate cell lysate or extract. Less than
	0.5 % reactivity is observed against the non-phosphorylated form of the immunizing peptide.
	This antibody is phospho specific for pS364 of E2F-1.

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Application Details	
	Western Blot Dilution: 1:250 - 1:2,000
	ELISA Dilution: 1:20,000 - 1:100,000
	Other: User Optimized
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.80 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
	Stabilizer: None
	Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended
	storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after
	standing at room temperature. This product is stable for several weeks at 4° C as an undiluted
	liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Affinity Purified anti- E2F-1 pS364 antibody was used at a 10 µg/ml to detect nuclear and occasion-ally cytoplasmic signal in a variety of tissues in-cluding multi-human, multi-brain and multi-cancer slides. Within the multi-tumor block, the antibody showed variable levels of nuclear staining between individual tumors, with some tumors showing strong staining. This image shows E2F-1 pS364 staining of human breast carcinoma. Tissue was formalin-



fixed and paraffin embedded. Personal Communication, Tina Roush, LifeSpanBiosciences, Seattle, WA.

Western Blotting

Image 2. Western blot using Affinity Purified anti-E2F-1 pS364 antibody shows detection of a band at ~47 kDa 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 against phosphorylated E2F-1 specific reactivity (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 μ M 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 the expression of E2F-1 as shown in Panel A. After film development, images were overlapped to confirm that specific 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 611-103-122 for 45 min at room temperature for ECL detection. Personal Communication, XiaoHe Yang, Univ. Oklahoma.

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