

Product datasheet

Anti-E2F1 (phospho S364) antibody ab5391

★★★★★ [1 Abreviews](#) [5 References](#) [2 Images](#)

Overview

Product name	Anti-E2F1 (phospho S364) antibody
Description	Rabbit polyclonal to E2F1 (phospho S364)
Host species	Rabbit
Specificity	This antibody is specific for the phosphorylated form of E2F1. Minimal cross-reactivity is seen with non-phosphorylated human E2F1 by peptide ELISA.
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide corresponding to Human E2F1 aa 350-450 (phospho S364) conjugated to keyhole limpet haemocyanin.

 [Run BLAST with](#)

 [Run BLAST with](#)

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab5391 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.
WB	★★★★★ (1)	1/250. Detects a band of approximately 47 kDa (predicted molecular weight: 47 kDa).

Target

Function

Transcription activator that binds DNA cooperatively with dp proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. E2F-1 binds preferentially RB1 protein, in a cell-cycle dependent manner. It can mediate both cell proliferation and p53-dependent apoptosis.

Sequence similarities

Belongs to the E2F/DP family.

Post-translational modifications

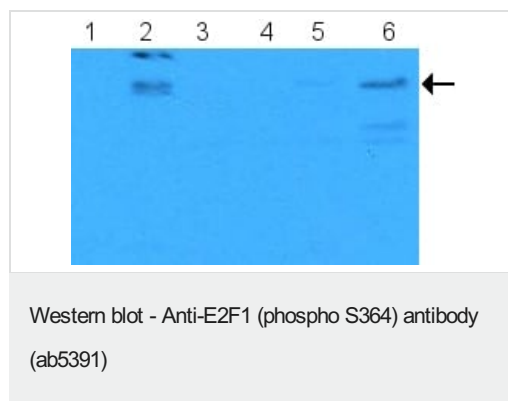
Phosphorylated by CDK2 and cyclin A-CDK2 in the S-phase.

Acetylation stimulates DNA-binding. Enhanced under stress conditions such as DNA damage and inhibited by retinoblastoma protein pRB. Regulated by KAP1/TRIM28 which recruits HDAC1 to E2F1 resulting in deacetylation. Acetylated by P/CAF/KAT2B.

Cellular localization

Nucleus.

Images



All lanes : Anti-E2F1 (phospho S364) antibody (ab5391) at 1/250 dilution

Lane 1 : CRE (mouse) cells transfected with human E2F1

Lane 2 : CRE (mouse) cells transfected with human E2F1 with doxorubicin

Lane 3 : NiH3T3 (mouse) cell lysate

Lane 4 : NiH3T3 (mouse) cell lysate with doxorubicin

Lane 5 : MDA-231 (human breast cancer) cell lysate

Lane 6 : MDA-231 (human breast cancer) cell lysate with doxorubicin

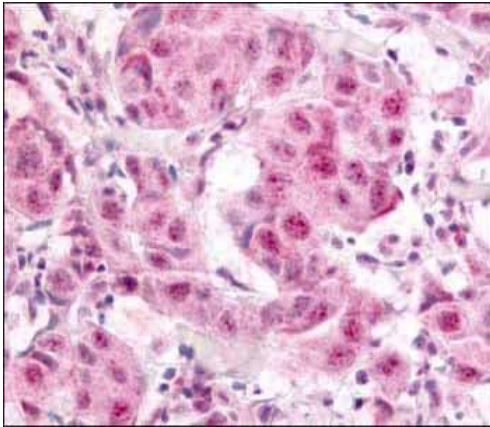
Secondary

All lanes : HRP conjugated Goat-anti-Rabbit IgG MX10

Predicted band size: 47 kDa

Lysates were prepared from untreated cells and cells treated with 2 μ M Doxorubicin used as a DNA damaging agent. The arrow indicates E2F1.

Phosphorylated E2F1 was only expressed in the treated cells. The blot clearly shows that ab5391 only detected phosphorylated E2F1 in the human cell lines.



ab5391 at 10 μ g/ml staining human breast carcinoma.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-E2F1 (phospho S364) antibody (ab5391)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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