

E2F-1 (Phospho Thr433) Rabbit pAb

CatalogNo: YP0298 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, ELISA

MW

- 60kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

ELISA 1:5000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human E2F1 around the phosphorylation site of Thr433. AA range:388-437

Specificity Phospho-E2F-1 (T433) Polyclonal Antibody detects endogenous levels of E2F-1 protein only when phosphorylated at T433. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):DLtPL

Target Information

Gene name E2F1

Protein Name Transcription factor E2F1

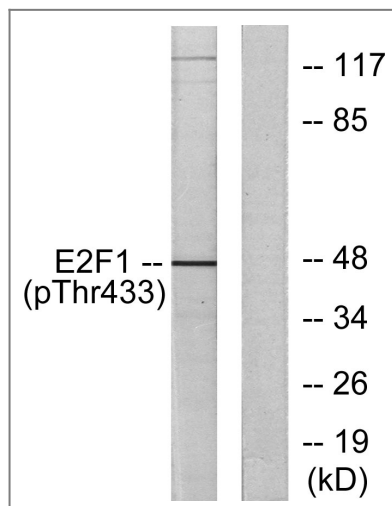
Organism	Gene ID	UniProt ID
Human	1869 ;	Q01094 ;
Mouse	13555 ;	Q61501 ;

Cellular Localization Nucleus .

Tissue specificity Brain ,Epithelium ,Pancreas ,Skin ,

Function 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. ,PTM:Phosphorylated by CDK2 and cyclin A-CDK2 in the S-phase. ,similarity:Belongs to the E2F/DP family. ,subunit:Component of the DRTF1/E2F transcription factor complex. Forms heterodimers with DP family members. The E2F-1 complex binds specifically hypophosphorylated retinoblastoma protein RB1. During the cell cycle , RB1 becomes phosphorylated in mid-to-late G1 phase , detaches from the DRTF1/E2F complex , rendering E2F transcriptionally active. Viral oncoproteins , notably E1A , T-antigen and HPV E7 , are capable of sequestering RB protein , thus releasing the active complex. Interacts with TRRAP , which probably mediates its interaction with histone acetyltransferase complexes , leading to transcription activation. Binds TOPBP1 and EAPP. Interacts with ARID3A. ,

Validation Data



Western blot analysis of lysates from HeLa cells treated with Etoposide 25uM 24h, using E2F1 (Phospho-Thr433) Antibody. The lane on the right is blocked with the phospho peptide.

| Contact information

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E2F-1 (Phospho Thr433) Rabbit pAb

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