

E2F-4 (Acetyl Lys96) Rabbit pAb

CatalogNo: YK0025

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 43kD (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 1:20000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized Acetyl-peptide derived from human E2F4 around the Acetylation site of Lys96. AA range:61-110

Specificity Acetyl-E2F-4 (K96) Polyclonal Antibody detects endogenous levels of E2F-4 protein only when acetylated at K96. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):ADkLI

Target Information

Gene name E2F4

Protein Name Transcription factor E2F4

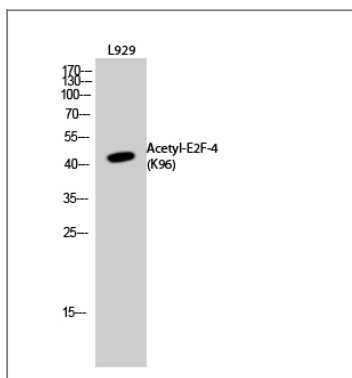
Organism	Gene ID	UniProt ID
Human	1874 ;	Q16254 ;
Mouse	104394 ;	Q8R0K9 ;

Cellular Localization Nucleus.

Tissue specificity Found in all tissue examined including heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas.

Function developmental stage:Present in the growth-arrested state , its abundance does not change significantly as cells move into and through the cell cycle. ,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-4 binds with high affinity to RBL1 and RBL2. In some instances , can also bind RB protein. ,polymorphism:The poly-Ser region of E2F4 is polymorphic and the number of Ser varies in the population (from 8 to 17) . The variation might be associated with tumorigenesis. ,PTM:Differentially phosphorylated in vivo. ,similarity:Belongs to the E2F/DP family. ,subunit:Component of the DRTF1/E2F transcription factor complex. Binds cooperatively with DP-1 to E2F sites. The E2F4/DP-1 dimer interacts preferentially with pocket protein RBL1 , which inhibits the E2F transactivation domain. Lower affinity interaction has been found with retinoblastoma protein RB1. Interacts with TRRAP , which probably mediates its interaction with histone acetyltransferase complexes , leading to transcription activation. Interacts with HCFC1. Component of the DREAM complex (also named LINC complex) at least composed of E2F4 , E2F5 , LIN9 , LIN37 , LIN52 , LIN54 , MYBL1 , MYBL2 , RBL1 , RBL2 , RBBP4 , TFDP1 and TFDP2. The complex exists in quiescent cells where it represses cell cycle-dependent genes. It dissociates in S phase when LIN9 , LIN37 , LIN52 and LIN54 form a subcomplex that binds to MYBL2. ,tissue specificity:Found in all tissue examined including heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas. ,

Validation Data



Western Blot analysis of L929 cells using Acetyl-E2F-4 (K96) Polyclonal Antibody. Secondary antibody (catalog#:RS0002) was diluted at 1:20000

| Contact information

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Rabbit pAb**

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