

E2F-1 Rabbit pAb

CatalogNo: YT5811 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IF, WB, IHC, ELISA

MW

- 60kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

IF 1:50-200**WB 1:500-2000****ELISA 1:10000-20000****IHC 1:50-300**

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.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthetic peptide from human protein at AA range: 100-170**Specificity** The antibody detects endogenous E2F-1 protein

Target Information

Gene name E2F1 RBBP3

Protein Name E2F transcription factor 1

| Organism | Gene ID | UniProt ID |
|----------|-------------------------|--------------------------|
| Human | 1869 ; | Q01094 ; |
| Mouse | 13555 ; | Q61501 ; |
| Rat | | O09139 ; |

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

| Contact information

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