

## 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

### 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

**IF 1:50-200**

**WB 1:500-2000**

**ELISA 1:10000-20000**

**IHC 1:50-300**

### 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	<a href="#">1869</a> ;	<a href="#">Q01094</a> ;
Mouse	<a href="#">13555</a> ;	<a href="#">Q61501</a> ;
Rat		<a href="#">O09139</a> ;

**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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