

# E2F1 Rabbit mAb

Catalog # AP76849

## Product Information

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<b>Application</b>	WB, IHC-P, IP
<b>Primary Accession</b>	<a href="#">Q01094</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	46920

## Additional Information

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<b>Gene ID</b>	1869
<b>Other Names</b>	E2F1
<b>Dilution</b>	WB~~1:1000 IHC-P~~N/A IP~~N/A
<b>Format</b>	1xPBS(pH 7.4), 150mM NaCl, 50% Glycerol, 0.02% Sodium azide and 0.05% BSA
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	E2F1 {ECO:0000303   PubMed:8964493, ECO:0000312   HGNC:HGNC:3113}
<b>Function</b>	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 (PubMed: <a href="#">10675335</a> , PubMed: <a href="#">12717439</a> , PubMed: <a href="#">17050006</a> , PubMed: <a href="#">17704056</a> , PubMed: <a href="#">18625225</a> , PubMed: <a href="#">28992046</a> ). The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase (PubMed: <a href="#">10675335</a> , PubMed: <a href="#">12717439</a> , PubMed: <a href="#">17704056</a> ). E2F1 binds preferentially RB1 in a cell-cycle dependent manner (PubMed: <a href="#">10675335</a> , PubMed: <a href="#">12717439</a> , PubMed: <a href="#">17704056</a> ). It can mediate both cell proliferation and TP53/p53-dependent apoptosis (PubMed: <a href="#">8170954</a> ). Blocks adipocyte differentiation by binding to specific promoters repressing CEBPA binding to its target gene promoters (PubMed: <a href="#">20176812</a> ). Directly activates transcription of PEG10 (PubMed: <a href="#">17050006</a> , PubMed: <a href="#">18625225</a> , PubMed: <a href="#">28992046</a> ). Positively regulates transcription of RRP1B (PubMed: <a href="#">20040599</a> ).

## Background

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The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein and another 2 members, E2F2 and E2F3, have an additional cyclin binding domain. This protein binds preferentially to retinoblastoma protein pRB in a cell-cycle dependent manner. It can mediate both cell proliferation and p53-dependent/independent apoptosis.

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