

**E2F1 Antibody (H357)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
Catalog # AP7593c

## Specification

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### E2F1 Antibody (H357) - Product Information

Application	WB,E
Primary Accession	<a href="#">Q01094</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	342-371

### E2F1 Antibody (H357) - Additional Information

Gene ID 1869

#### Other Names

Transcription factor E2F1, E2F-1, PBR3, Retinoblastoma-associated protein 1, RBAP-1, Retinoblastoma-binding protein 3, RBBP-3, pRB-binding protein E2F-1, E2F1, RBBP3

#### Target/Specificity

This E2F1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 342-371 amino acids from human E2F1.

#### Dilution

WB~~1:2000

#### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

E2F1 Antibody (H357) is for research use only and not for use in diagnostic or therapeutic procedures.

### E2F1 Antibody (H357) - Protein Information

**Name** E2F1 {ECO:0000303|PubMed:8964493, ECO:0000312|HGNC:HGNC:3113}

**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 (PubMed:[10675335](#),

PubMed:[12717439](#), PubMed:[17050006](#), PubMed:[17704056](#), PubMed:[18625225](#), PubMed:[28992046](#)). The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase (PubMed:[10675335](#), PubMed:[12717439](#), PubMed:[17704056](#)). E2F1 binds preferentially RB1 in a cell-cycle dependent manner (PubMed:[10675335](#), PubMed:[12717439](#), PubMed:[17704056](#)). It can mediate both cell proliferation and TP53/p53- dependent apoptosis (PubMed:[8170954](#)). Blocks adipocyte differentiation by binding to specific promoters repressing CEBPA binding to its target gene promoters (PubMed:[20176812](#)). Directly activates transcription of PEG10 (PubMed:[17050006](#), PubMed:[18625225](#), PubMed:[28992046](#)). Positively regulates transcription of RRP1B (PubMed:[20040599](#)).

### Cellular Location

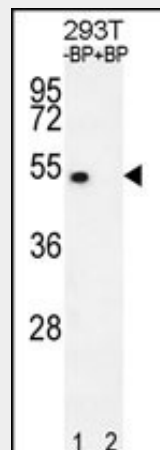
Nucleus

### E2F1 Antibody (H357) - Protocols

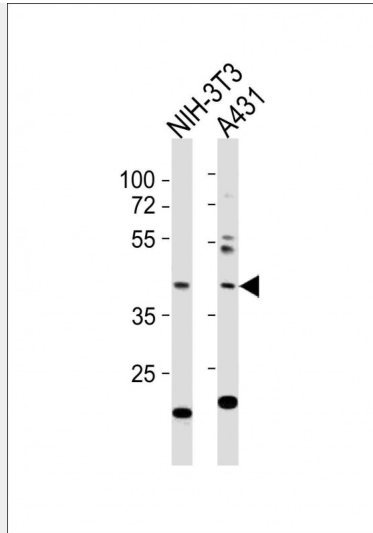
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

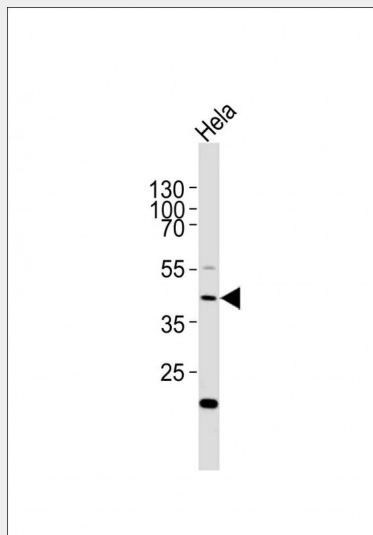
### E2F1 Antibody (H357) - Images



Western blot analysis of E2F1 Antibody (H357) Pab (Cat.#AP7593c) pre-incubated without(lane 1) and with(lane 2) blocking peptide in 293T cell line lysate. E2F1 Antibody (H357) (arrow) was detected using the purified Pab.



All lanes : Anti-E2F1 Antibody (H357) at 1:1000 dilution Lane 1: NIH-3T3 whole cell lysates Lane 2: A431 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 46.9 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



Anti-E2F1 Antibody (H357) at 1:2000 dilution + HeLa whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 46.9 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

### **E2F1 Antibody (H357) - Background**

E2F1 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 evolutionarily 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 two 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.

## **E2F1 Antibody (H357) - References**

O'Donnell, K.A., et al., Nature 435(7043):839-843 (2005). Wang, C., et al., J. Biol. Chem. 280(13):12339-12343 (2005). Joshi, B., et al., Oncogene 24(13):2204-2217 (2005). Saberwal, G., et al., Int. J. Hematol. 80(2):146-154 (2004). Chaussepied, M., et al., Mol. Cell 16(5):831-837 (2004).

### **E2F1 Antibody (H357) - Citations**

- [Sj7170, a unique dual-function peptide with a specific  \$\alpha\$ -chymotrypsin inhibitory activity and a potent tumor-activating effect from scorpion venom.](#)
- [Maspin genetically and functionally associates with gastric cancer by regulating cell cycle progression.](#)