

### E2F2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP10481C

## **Specification**

### E2F2 Antibody (Center) - Product Information

WB,E Application **Primary Accession** 014209 Other Accession NP 004082.1 Human, Mouse Reactivity Host **Rabbit** Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 47506 Antigen Region 258-286

### E2F2 Antibody (Center) - Additional Information

#### **Gene ID 1870**

### **Other Names**

Transcription factor E2F2, E2F-2, E2F2

### Target/Specificity

This E2F2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 258-286 amino acids from the Central region of human E2F2.

# **Dilution**

WB~~1:1000

### **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**

E2F2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## E2F2 Antibody (Center) - Protein Information

# Name E2F2

**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. E2F2 binds specifically to RB1 in a cell-cycle dependent manner.

**Cellular Location** Nucleus.

### **Tissue Location**

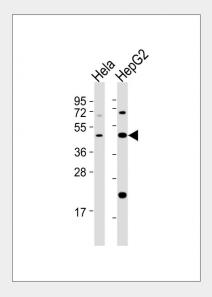
Highest level of expression is found in placenta, low levels are found in lung. Found as well in many immortalized cell lines derived from tumor samples

# E2F2 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# E2F2 Antibody (Center) - Images



All lanes : Anti-E2F2 Antibody (Center) at 1:2000 dilution Lane 1: Hela whole cell lysates Lane 2: HepG2 whole cell lysates Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



E2F2 Antibody (Center) (Cat. #AP10481c) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the E2F2 antibody detected the E2F2 protein (arrow).

17

## E2F2 Antibody (Center) - Background

### E2F2 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, E2F1 and E2F3, have an additional cyclin binding domain. This protein binds specifically to retinoblastoma protein pRB in a cell-cycle dependent manner, and it exhibits overall 46% amino acid identity to E2F1. [provided by RefSeq].

# E2F2 Antibody (Center) - References

Revenko, A.S., et al. Mol. Cell. Biol. 30(22):5260-5272(2010) Hayami, S., et al. Mol. Cancer 9, 59 (2010): Chen, J., et al. Cancer Causes Control 20(9):1769-1777(2009) Cunningham, J.M., et al. Br. J. Cancer 101(8):1461-1468(2009) Lal, A., et al. Mol. Cell 35(5):610-625(2009)