

**E2F2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP10481c****Specification**

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**E2F2 Antibody (Center) Blocking Peptide - Product Information**

Primary Accession [O14209](#)  
Other Accession [NP\\_004082.1](#)

**E2F2 Antibody (Center) Blocking Peptide - Additional Information**

**Gene ID** 1870

**Other Names**

Transcription factor E2F2, E2F-2, E2F2

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**E2F2 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **E2F2 Antibody (Center) Blocking Peptide - Images**

#### **E2F2 Antibody (Center) Blocking Peptide - 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 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 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) Blocking Peptide - 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)