

E2F7 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16112c**Specification**

E2F7 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q96AV8](#)**E2F7 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 144455**Other Names**

Transcription factor E2F7, E2F-7, E2F7

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.

E2F7 Antibody (Center) Blocking Peptide - Protein Information**Name** E2F7**Function**

Atypical E2F transcription factor that participates in various processes such as angiogenesis, polyploidization of specialized cells and DNA damage response. Mainly acts as a transcription repressor that binds DNA independently of DP proteins and specifically recognizes the E2 recognition site 5'-TTTC[CG]CGC-3'. Directly represses transcription of classical E2F transcription factors such as E2F1. Acts as a regulator of S-phase by recognizing and binding the E2-related site 5'-TTCCCGCC-3' and mediating repression of G1/S-regulated genes. Plays a key role in polyploidization of cells in placenta and liver by regulating the endocycle, probably by repressing genes promoting cytokinesis and antagonizing action of classical E2F proteins (E2F1, E2F2 and/or E2F3). Required for placental development by promoting polyploidization of trophoblast giant cells. Also involved in DNA damage response: up-regulated by p53/TP53 following genotoxic stress and acts as a downstream effector of p53/TP53-dependent repression by mediating repression of indirect p53/TP53 target genes involved in DNA replication. Acts as a promoter of sprouting angiogenesis, possibly by acting as a transcription activator: associates with HIF1A, recognizes and binds the VEGFA promoter, which is different from canonical E2 recognition site, and activates expression of the VEGFA gene. Acts as a negative regulator of keratinocyte differentiation.

Cellular Location

Nucleus.

E2F7 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

E2F7 Antibody (Center) Blocking Peptide - Images

E2F7 Antibody (Center) Blocking Peptide - Background

Along with E2F8, inhibitor of E2F-dependent transcription that is important for the control of the E2F1-TP53 apoptotic pathway. Directly represses E2F1 transcription (By similarity). Binds DNA independently of DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3'. Appears to regulate a subset of E2F-dependent genes whose products are required for normal cell cycle progression.