

Phospho-E2F1(H357) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3698a**Specification**

Phospho-E2F1(H357) Antibody Blocking peptide - Product InformationPrimary Accession [Q01094](#)**Phospho-E2F1(H357) Antibody Blocking peptide - 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

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.

Phospho-E2F1(H357) Antibody Blocking peptide - 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:17704056, PubMed:17050006, 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

Phospho-E2F1(H357) Antibody Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Phospho-E2F1(H357) Antibody Blocking peptide - Images

Phospho-E2F1(H357) Antibody Blocking peptide - Background

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.

Phospho-E2F1(H357) Antibody Blocking peptide - References

Pulikkan, J.A., et al. Blood 115(9):1768-1778(2010)Paik, J.C., et al. J. Biol. Chem. 285(9):6348-6363(2010)Alla, V., et al. J. Natl. Cancer Inst. 102(2):127-133(2010)Zhou, C., et al. Mol. Endocrinol. 23(12):2000-2012(2009)Yang, X., et al. Genes Dev. 23(20):2388-2393(2009)Olsen, J.V., et al. Cell 127(3):635-648(2006)