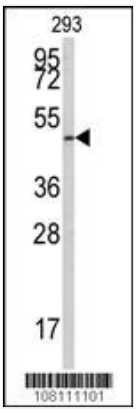
E2F1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	E2F1, Polyclonal Antibody
Full Product Name	E2F1 (S332) (Transcription Factor E2F1, E2F-1, Retinoblastoma Binding Protein 3, RBBP-3, PRB-binding Protein E2F-1, PBR3, Retinoblastoma-associated Protein 1, RBAP-1, RBBP3) (FITC)
Product Gene Name	anti-E2F1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human E2F1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	46,920 Da
OMIM	189971
3D Structure	ModBase 3D Structure for Q01094
Immunogen	Synthetic peptide corresponding to amino acid residues surrounding S332 of human E2F1 (KLH).
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-E2F1 antibody	Antibodies; Retinoblastoma Proteins
Applications Tested/Suitable for anti-E2F1 antibody	Western Blot (WB), FLISA
Application Notes for anti-E2F1 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-E2F1 antibody	MBS6473378 is an antibody targeting E2F1. Also known as E2F1 (S332) (Transcription Factor E2F1, E2F-1, Retinoblastoma Binding Protein 3, RBBP-3, PRB-binding Protein E2F-1, PBR3, Retinoblastoma-associated Protein 1, RBAP-1, RBBP3) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-E2F1 antibody	1. O'Donnell, K.A., et al., Nature 435(7043):839-843 (2005). 2. Wang, C., et al., J. Biol. Chem. 280(13):12339-12343 (2005). 3. Joshi, B., et al., Oncogene 24(13):2204-2217 (2005). 4. Saberwal, G., et al., Int. J. Hematol. 80(2):146-154 (2004). 5. Chaussepied, M., et al., Mol. Cell 16(5):831-837 (2004).

Other Notes	Small volumes of anti-E2F1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-E2F1 antibody
Western blot analysis of anti-E2F1 Antibody (S332) in 293 cell line lysates (35ug/lane). E2F1 (arrow) was detected using the purified Pab.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for E2F1. It may not necessarily be applicable to this product.

NCBI GI #	12669911
NCBI GeneID	1869
NCBI Accession #	NP_005216
UniProt Primary Accession #	Q01094
UniProt Secondary Accession #	Q13143; Q92768
UniProt Related Accession #	Q01094
GenBank Nucleotide #	NM_005225
NCBI Official Full Name	transcription factor E2F1
NCBI Official Synonym Full Names	E2F transcription factor 1
NCBI Official Symbol	E2F1
NCBI Official Synonym Symbols	RBP3; E2F-1; RBAP1; RBBP3
UniProt Protein Name	Transcription factor E2F1
UniProt Synonym Protein Names	PBR3; Retinoblastoma-associated protein 1; RBAP-1; Retinoblastoma-binding protein 3; RBBP-3; pRB-binding protein E2F-1
Protein Family	Transcription factor
UniProt Gene Name	E2F1
UniProt Synonym Gene Names	RBBP3; E2F-1; RBAP-1; RBBP-3
UniProt Entry Name	E2F1_HUMAN
NCBI Protein Information	transcription factor E2F1; PBR3; PRB-binding protein E2F-1; RBAP-1; RBBP-3; retinoblastoma-associated protein 1; retinoblastoma-binding protein 3

UniProt Comments for E2F1	E2F1: a member of the E2F/DP 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. Binds DNA cooperatively with Dp transcription factors in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication.The Dp-1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. The E2F-1 complex binds specifically hypophosphorylated retinoblastoma protein RB1. During the cell cycle, RB1 becomes phosphorylated in mid-to-late G1 phase, detaches from the DRTF1/E2F complex, rendering E2F transcriptionally active. Phosphorylated by CDK2 and cyclin A-CDK2 in the S-phase. It can mediate both cell proliferation and p53-dependent apoptosis. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 20q11.2 Cellular Component: nucleoplasm; Rb-E2F complex; cytoplasm; nucleus Molecular Function: protein binding; DNA binding; sequence-specific DNA binding; transcription factor binding; transcription factor activity Biological Process: Notch signaling pathway; transcription, DNA-dependent; apoptosis; positive regulation of transcription, DNA-dependent; mRNA stabilization; negative regulation of transcription from RNA polymerase II promoter; anoikis; positive regulation of fibroblast proliferation; DNA damage response, signal transduction resulting in induction of apoptosis; regulation of transcription, DNA-dependent; DNA damage checkpoint; forebrain development; spermatogenesis; positive regulation of transcription from RNA polymerase II promoter; mitotic cell cycle; negative regulation of transcription, DNA-dependent; G1/S transition of mitotic cell cycle
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