
Summary

Production Name	E2F-4/5 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC, WB, ELISA
Reactivity	Human, Mouse, Rat, Monkey

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	E2F4/E2F5
Alternative Names	E2F4; Transcription factor E2F4; E2F-4; E2F5; Transcription factor E2F5; E2F-5
Gene ID	1874/1875
SwissProt ID	Q16254/Q15329. The antiserum was produced against synthesized peptide derived from human E2F4. AA range:51-100

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000..
Molecular Weight	44kD

Background

Product Name: E2F-4/5 Rabbit Polyclonal Antibody
Catalog #: APRab10256



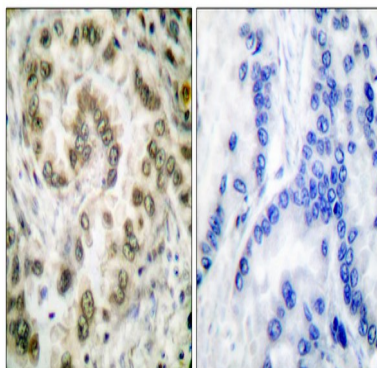
The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several 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 binds to all three of the tumor suppressor proteins pRB, p107 and p130, but with higher affinity to the last two. It plays an important role in the suppression of proliferation-associated gene expression. Present in the growth-arrested state, its abundance does not change significantly as cells move into and through the cell cycle. 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 E2F1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. E2F-4 binds with high affinity to RBL1 and RBL2. In some instances, can also bind RB protein. polymorphism: The poly-Ser region of E2F4 is polymorphic and the number of Ser varies in the population (from 8 to 17). The variation might be associated with tumorigenesis. PTM: Differentially phosphorylated in vivo. similarity: Belongs to the E2F/DP family. subunit: Component of the E2F1/E2F transcription factor complex. Binds cooperatively with DP-1 to E2F sites. The E2F4/DP-1 dimer interacts preferentially with pocket protein RBL1, which inhibits the E2F transactivation domain. Lower affinity interaction has been found with retinoblastoma protein RB1. Interacts with TRRAP, which probably mediates its interaction with histone acetyltransferase complexes, leading to transcription activation. Interacts with HCFC1. Component of the DREAM complex (also named LINC complex) at least composed of E2F4, E2F5, LIN9, LIN37, LIN52, LIN54, MYBL1, MYBL2, RBL1, RBL2, RBBP4, TFDP1 and TFDP2. The complex exists in quiescent cells where it represses cell cycle-dependent genes. It dissociates in S phase when LIN9, LIN37, LIN52 and LIN54 form a subcomplex that binds to MYBL2. tissue specificity: Found in all tissue examined including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

Research Area

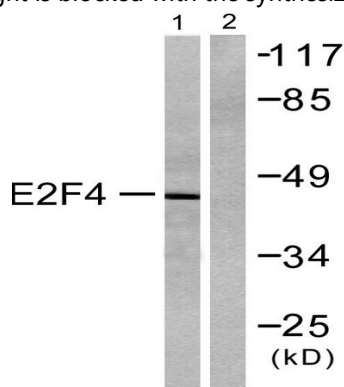
Cell_Cycle_G1S; Cell_Cycle_G2M_DNA; TGF-beta;

Image Data

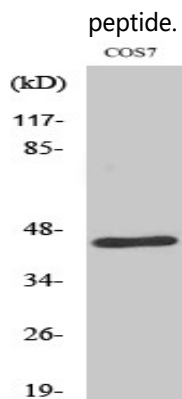
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Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using E2F4 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COS7 cells, using E2F4 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using E2F-4/5 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA) .

Note

For research use only.