

## E2F-4/5 Polyclonal Antibody

<b>Catalog No :</b>	YT1444
<b>Reactivity :</b>	Human;Mouse;Rat;Monkey
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	E2F-4/5
<b>Fields :</b>	>>Cell cycle;>>Cellular senescence;>>TGF-beta signaling pathway
<b>Gene Name :</b>	E2F4/E2F5
<b>Protein Name :</b>	Transcription factor E2F4/5
<b>Human Gene Id :</b>	1874/1875
<b>Human Swiss Prot No :</b>	Q16254/Q15329
<b>Mouse Gene Id :</b>	104394/13559
<b>Rat Swiss Prot No :</b>	Q62814
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human E2F4. AA range:51-100
<b>Specificity :</b>	E2F-4/5 Polyclonal Antibody detects endogenous levels of E2F-4/5 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 44kD

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**Cell Pathway :** Cell\_Cycle\_G1S;Cell\_Cycle\_G2M\_DNA;TGF-beta;

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**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 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 ge

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**Function :**

developmental stage: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 DRTF1/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 DRTF1/E2F transcription fa

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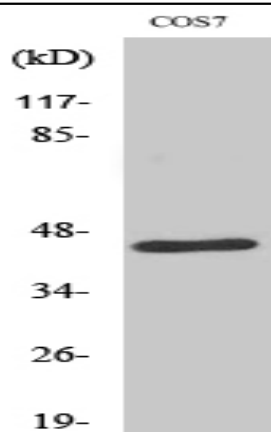
**Subcellular Location :** Nucleus.

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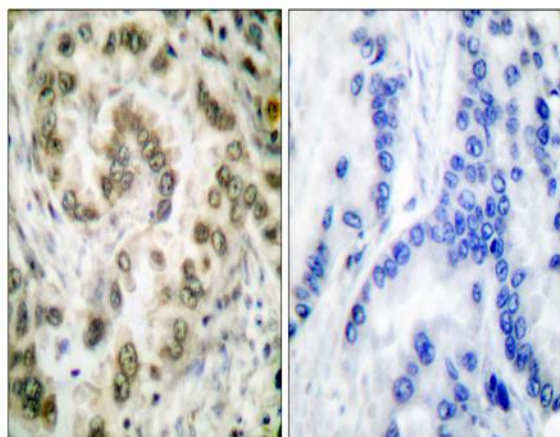
**Expression :** Found in all tissue examined including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

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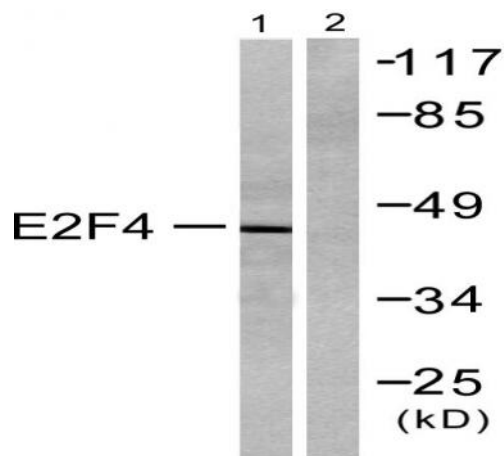
## Products Images



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).



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.