E2F-4/5 Rabbit pAb

CatalogNo: YT1444

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,Monkey

Applications
- WB,IHC,IF,ELISA

MW
- 44kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:40000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human E2F4. AA range:51-100
Specificity	E2F-4/5 Polyclonal Antibody detects endogenous levels of E2F-4/5 protein.

Target Information

Gene name E2F4/E2F5

Protein Name Transcription factor E2F4/5

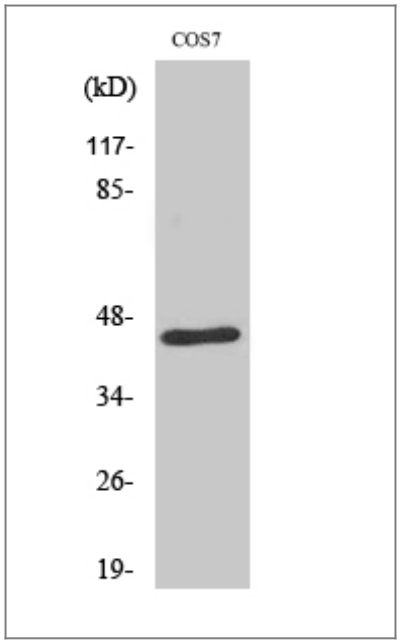
Organism	Gene ID	UniProt ID
Human	1874; 1875;	Q16254; Q15329;
Mouse	104394; 13559;	
Rat		Q62814;

Cellular Localization Nucleus.

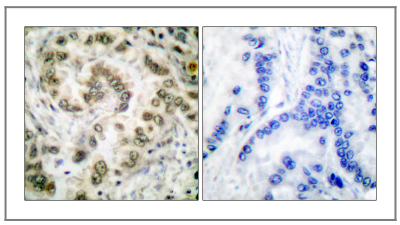
Tissue specificity Found in all tissue examined including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

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 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.,

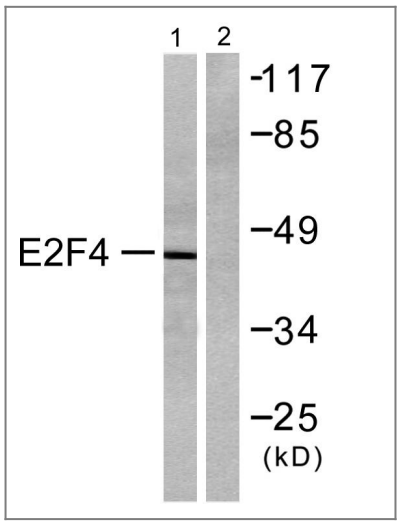
Validation Data



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.

Contact information

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Please scan the QR code to access additional product information:
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