

Anti-E2F4 Picoband Antibody

Catalog # ABO11675

Product Information

Application	WB, IHC-P
Primary Accession	Q16254
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Transcription factor E2F4(E2F4) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	1874
Other Names	Transcription factor E2F4, E2F-4, E2F4
Calculated MW	43960
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Nucleus.
Tissue Specificity	Found in all tissue examined including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Source	Eukaryota
Protein Name	Transcription factor E2F4
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human E2F4 (106-144aa ELQREQELDQHKVWVQQSIRNVTEDEVQNSCLAYVTHED), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
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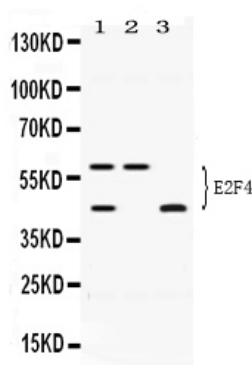
Protein Information

Name	E2F4
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. E2F4 binds with high affinity to RBL1 and RBL2. In some instances can also bind RB1. Specifically required for multiciliate cell differentiation: together with MCIDAS and E2F5, binds and activate genes required for centriole biogenesis.
Cellular Location	Nucleus.
Tissue Location	Found in all tissue examined including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

Background

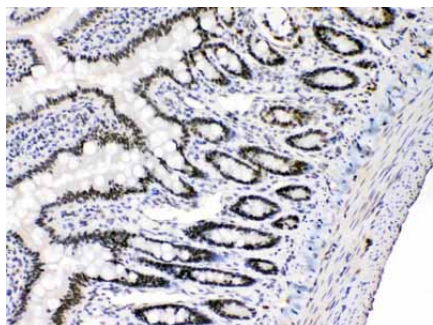
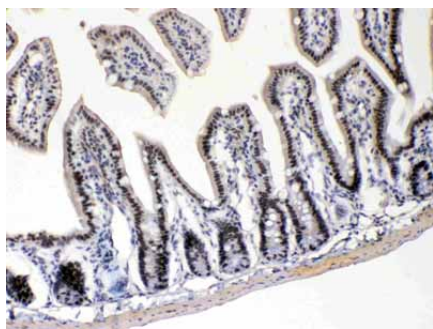
Transcription factor E2F4 is a protein that in humans is encoded by the E2F4 gene. The protein encoded by this gene is a member of the E2F family of transcription factors. This gene is mapped to 16q22.1. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. 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. Additionally, it plays an important role in the suppression of proliferation-associated genes, and its gene mutation and increased expression may be associated with human cancer.

Images

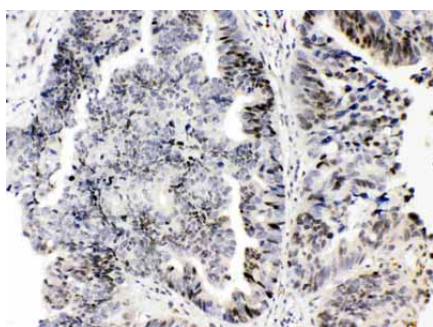


Western blot analysis of E2F4 expression in HELA whole cell lysates (lane 1), U2OS whole cell lysates (lane 2) and MCF-7 whole cell lysates (lane 3). E2F4 at 44KD, 60KD was detected using rabbit anti- E2F4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11675) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

E2F4 was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti- E2F4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11675) at 1 µg/mL. The immunohistochemical section was developed using SABC method .



E2F4 was detected in paraffin-embedded sections of rat intestine tissues using rabbit anti- E2F4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11675) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



E2F4 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- E2F4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11675) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.