10320 Camino Santa Fe, Suite G
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Anti-E2F4 Picoband Antibody

Catalog # ABO11675

Specification

Anti-E2F4 Picoband Antibody - Product Information

Application	**WB, IHC**
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.

Anti-E2F4 Picoband Antibody - Additional Information

Gene ID 1874

Other Names
Transcription factor E2F4, E2F-4, E2F4

Calculated MW
43960 MW KDa

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.

Protein Name
Transcription factor E2F4

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the N-terminus of human E2F4 (106-144aa ELQQREQELDQHKVWVQQSIRNVTEDVQNSCLAYVTHED), 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 r˚Constitution, 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.**

Anti-E2F4 Picoband Antibody - 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

Anti-E2F4 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-E2F4 Picoband Antibody - Images

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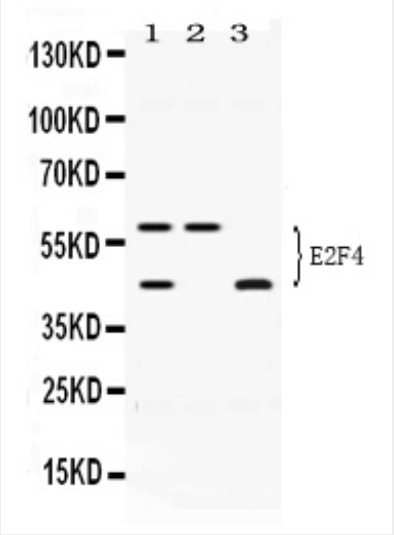
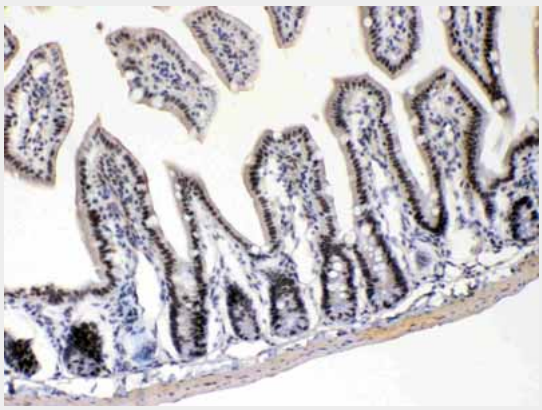
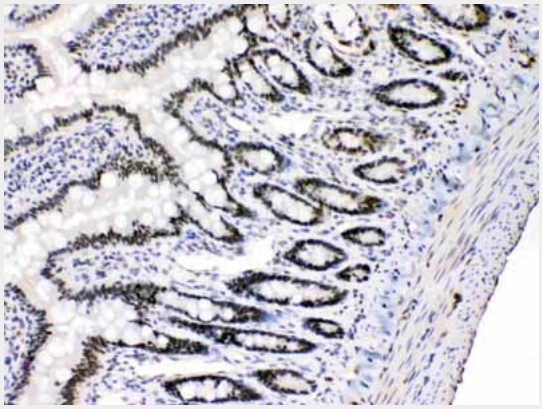


Western blot analysis of E2F4 expression in HELA whole cell lysates (lane 1), U20S whole cell lysates (lane 2) and MCF-7 whole cell lysates (lane 3). E2F4 at 44KD, 60KD was detected using rabbit anti- E2F4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11675) at 0.5 Î¼g/mL. The blot was 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 Î¼g/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 ??g/mL. The immunohistochemical section was developed using SABC method .

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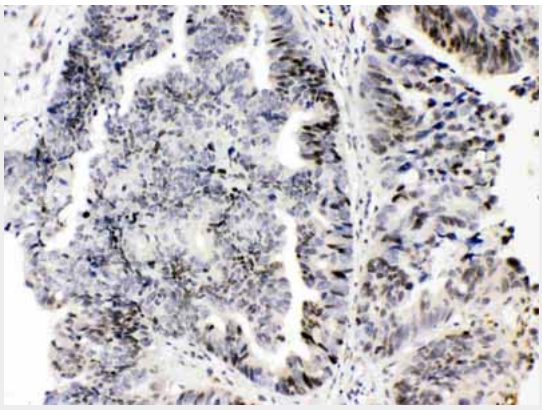

E2F4 was detected in paraffin-embedded sections of human intetsinal cancer tissues using rabbit anti- E2F4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11675) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

Anti-E2F4 Picoband Antibody - 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.