10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-E2F4 Antibody
Catalog # ABO11467

Specification

Anti-E2F4 Antibody - Product Information

Application	**WB**
Primary Accession	Q16254
Host	**Rabbit**
Reactivity	**Human, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Transcription factor E2F4(E2F4) detection. Tested with WB in Human;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-E2F4 Antibody - Additional Information

Gene ID 1874

Other Names
Transcription factor E2F4, E2F-4, E2F4

Calculated MW
43960 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Rat

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 Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human E2F4(228-243aa LPKPALAQSQEASRPN), different from the related mouse and rat sequences by four amino acids.

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.

Sequence Similarities
Belongs to the E2F/DP family.

Anti-E2F4 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 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 Antibody - Images

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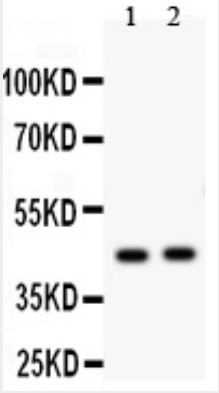

Anti- E2F4 antibody, ABO11467, Western blottingAll lanes: Anti E2F4 (ABO11467) at 0.5ug/mlLane 1: Rat Lung Tissue Lysate at 50ugLane 2: SMMC Whole Cell Lysate at 40ugPredicted bind size: 44KDObserved bind size: 44KD

Anti-E2F4 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. 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.