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Anti-E2F6 Antibody

Catalog # ABO11119

Product Information

Application	WB
Primary Accession	O75461
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Transcription factor E2F6(E2F6) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	1876
Other Names	Transcription factor E2F6, E2F-6, E2F6
Calculated MW	31844
Application Details	Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Subcellular Localization	Nucleus.
Tissue Specificity	Expressed in all tissues examined. Highest levels in placenta, skeletal muscle, heart, ovary, kidney, small intestine and spleen.
Source	Eukaryota
Protein Name	Transcription factor E2F6(E2F-6)
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 E2F6(162-177aa KDCAQQLFELTDDKEN), different from the related mouse and rat sequences by one amino acid.
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.

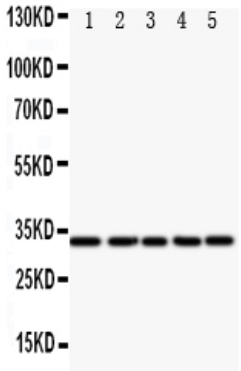
Protein Information

Name	E2F6 {ECO:0000303|PubMed:9689056, ECO:0000312|HGNC:HGNC:3120}
Function	Inhibitor of E2F-dependent transcription (PubMed: 9501179, PubMed:9689056, PubMed:9704927). Binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3' (PubMed:9501179). Has a preference for the 5'-TTTCCCGC-3' E2F recognition site (PubMed:9501179). E2F6 lacks the transcriptional activation and pocket protein binding domains (PubMed:9501179, PubMed:9704927). Appears to regulate a subset of E2F-dependent genes whose products are required for entry into the cell cycle but not for normal cell cycle progression (PubMed:9501179, PubMed:9689056). Represses expression of some meiosis-specific genes, including SLC25A31/ANT4 (By similarity). May silence expression via the recruitment of a chromatin remodeling complex containing histone H3-K9 methyltransferase activity. Overexpression delays the exit of cells from the S-phase (PubMed:9501179).
Cellular Location	Nucleus
Tissue Location	Expressed in all tissues examined. Highest levels in placenta, skeletal muscle, heart, ovary, kidney, small intestine and spleen.

Background

E2F6(E2F transcription factor 6) also known as E2F-6. Northern blot analysis revealed that E2F6 is expressed as 2 mRNAs, 2.5 and 3.5 kb, in all human tissues and cell lines tested. The predicted human and mouse E2F6 protein sequences are 92% identical. The DNA-binding and dimerization domains of E2F6 are highly related to those of other E2F family members, but this protein lacks the sequences necessary for either transcriptional activation or binding to RB1, p107, or p130. E2F6 can act to repress the transcription of E2F-responsive genes by countering the activity of other E2F complexes. E2F6 contributes to gene silencing in a manner independent of retinoblastoma protein family members. E2F6 is found in a multimeric protein complex that contains MGA and MAX, and thus the complex can bind not only to the E2F binding site but also to MYC- and Brachyury- binding sites. The E2F6 complex preferentially occupies target promoters in G0 cells rather than in G1 cells.

Images



Anti-E2F6 antibody, ABO11119, Western blottingAll lanes: Anti E2F6 (ABO11119) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: COLO320 Whole Cell Lysate at 40ugLane 3: A549 Whole Cell Lysate at 40ugLane 4: MCF-7 Whole Cell Lysate at 40ugLane 5: SMMC Whole Cell Lysate at 40ugPredicted bind size: 32KDObserved bind size: 32KD