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Anti-E2F6 Antibody

Catalog # AP51174

Product Information

Application	WB, IHC, IP, CHIP
Primary Accession	O75461
Reactivity	Human, Mouse, Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31844

Additional Information

Gene ID	1876
Other Names	Transcription factor E2F6; E2F-6
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human E2F6. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IP~~N/A CHIP~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

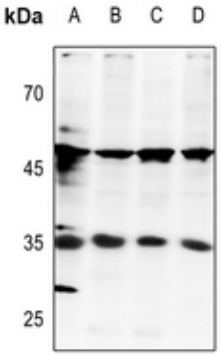
Name	E2F6 {ECO:0000303|PubMed:9689056, ECO:0000312|HGNC:HGNC:3120}
Function	Inhibitor of E2F-dependent transcription (PubMed: 9501179, PubMed:9689056, PubMed:9704927). Binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3' (PubMed:9501179). Has a preference for the 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.

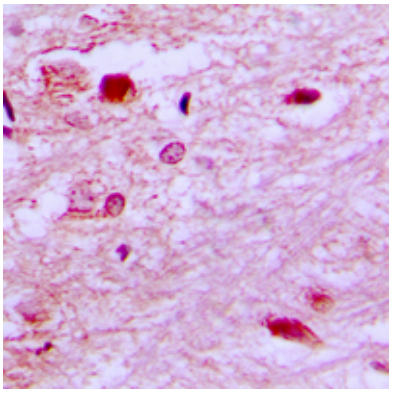
References

Gaubatz S.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:9190-9195(1998).
Cartwright P.,et al.Oncogene 17:611-623(1998).
Salih M.,et al.Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
Schwertfeger N.,et al.Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).

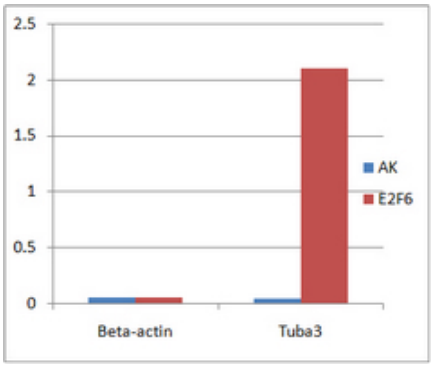
Images



Western blot analysis of E2F6 expression in PC12 (A), A2780 (B), HEK293T (C), HCT116 (D) whole cell lysates. (Predicted band size: 31 kD; Observed band size: 35 kD)



Immunohistochemical analysis of E2F6 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



ChIP analysis of Mouse ES cell nuclear lysate, incubated for 16 hours at 4°C. Cross-linking (X-ChIP) using formaldehyde for 10 minutes. Positive control: Tuba3. Negative Control: Beta-Actin. Detection step: Real-time PCR.

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