

Rabbit E2F4 Polyclonal Antibody | anti-E2F4 antibody

E2F4 Antibody

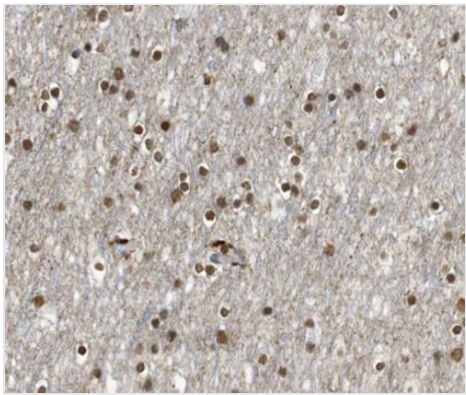
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320798	Rabbit	Human, Mouse, Rat, Monkey	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

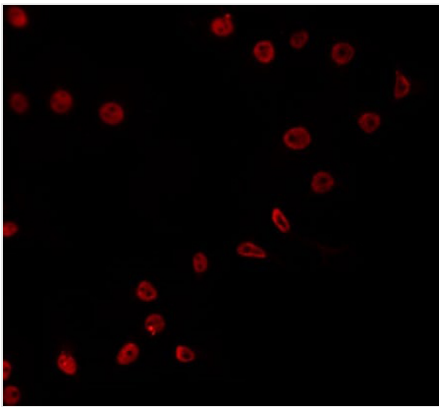
E2F4; Polyclonal Antibody; E2F4 Antibody; E2F 4; E2F transcription factor 4; E2F transcription factor 4 p107/p130 binding; E2F-4; E2F4_HUMAN; p107/p130 binding protein; Transcription factor E2F 4; Transcription factor E2F4; E2F 5; E2F transcription factor 5; E2F transcription factor 5 p130 binding; E2F-5; E2f5; E2F5_HUMAN; p130 binding; Transcription factor E2F5; anti-E2F4 antibody

PRODUCT SPECIFICATIONS

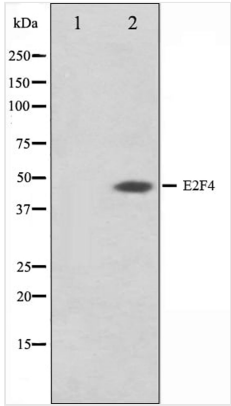
Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	IgG
Specificity	E2F4 antibody detects endogenous levels of total E2F4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	413
Applicable Applications for anti-E2F4 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human E2F4
Subcellular Location	Nucleus.
Tissue Specificity	Found in all tissue examined including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



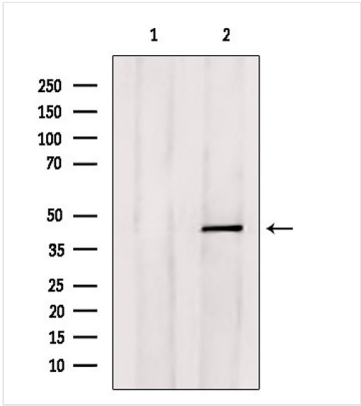
IHC (Immunohistochemistry)
AAA320798 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA320798 staining COS7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis on COS7 cell lysate using E2F4 Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of extracts from HepG2, using E2F4 Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-E2F4 antibody

Description: E2F4 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. E2F-4 binds with high affinity to RBL1 and RBL2. In some instances, can also bind RB protein. Belongs to the E2F/DP family. Component of the DRTF1/E2F transcription factor complex.

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.

Subunit Structure: Component of the DRTF1/E2F transcription factor complex. Binds cooperatively with TFDP1/Dp-1 to E2F sites. The E2F4/TFDP1 dimer interacts preferentially with pocket protein RBL1, which inhibits the E2F transactivation domain. Lower affinity interaction has been found with retinoblastoma protein RB1. Interacts with TRRAP, which probably mediates its interaction with histone acetyltransferase complexes, leading to transcription activation. Interacts with HCFC1. Component of the DREAM complex (also named LINC complex) at least composed of E2F4, E2F5, LIN9, LIN37, LIN52, LIN54, MYBL1, MYBL2, RBL1, RBL2, RBBP4, TFDP1 and TFDP2. The complex exists in quiescent cells where it represses cell cycle-dependent genes. It dissociates in S phase when LIN9, LIN37, LIN52 and LIN54 form a subcomplex that binds to MYBL2. Interacts with PML (isoform PML-1, isoform PML-2, isoform PML-3, isoform PML-4 and isoform PML-5). Interacts with CEBPA (when phosphorylated) (PubMed:15107404).

Post-translational Modifications: Differentially phosphorylated in vivo.

Similarity: Belongs to the E2F/DP family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	12669915
NCBI GeneID	1874
NCBI Accession #	NP_001941.2
NCBI GenBank Nucleotide #	NM_001950.3
UniProt Accession #	Q16254 ; Q12991 ; Q15328 ; A6NGR8 ; B5BU56
Molecular Weight	Observed: 44 kDa Predicted: 44 kDa
NCBI Official Full Name	transcription factor E2F4
NCBI Official Synonym Full Names	E2F transcription factor 4
NCBI Official Symbol	E2F4
NCBI Official Synonym Symbols	E2F-4
NCBI Protein Information	transcription factor E2F4
UniProt Protein Name	Transcription factor E2F4
UniProt Gene Name	E2F4
UniProt Synonym Gene Names	E2F-4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/e2f4-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320798>