Rabbit E2F6 Polyclonal Antibody | anti-E2F6 antibody

E2F6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320799	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot**

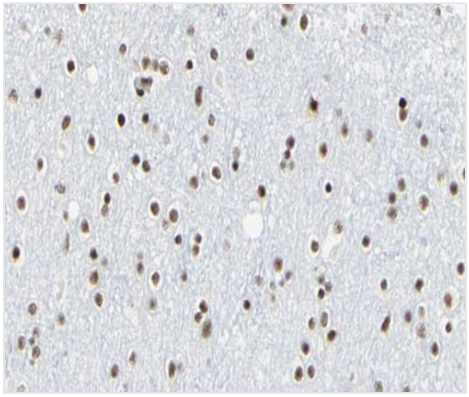
PRODUCT SYNONYMS

E2F6; Polyclonal Antibody; E2F6 Antibody; E2F 6; E2F binding site modulating activity protein; E2F transcription factor 6; E2F transcription factor 6 isoform 1; E2F-6; E2F6_HUMAN; EMA; MGC111545; Transcription factor E2F6; anti-E2F6 antibody

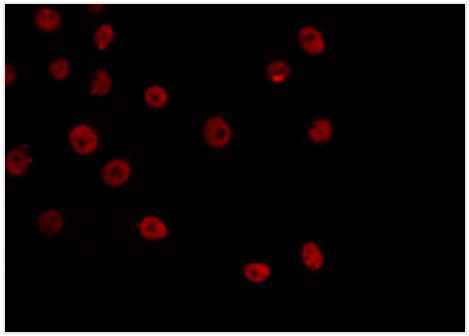
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	E2F6 antibody detects endogenous levels of total E2F6
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	249
Applicable Applications for anti-E2F6 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human E2F6
Subcellular Location	Nucleus.
Tissue Specificity	Expressed in all tissues examined. Highest levels in placenta, skeletal muscle, heart, ovary, kidney, small intestine and spleen.
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep, Dog**
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

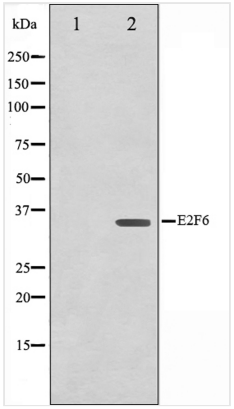
IMAGES



IHC (Immunohistochemisry)
AAA320799 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)
AAA320799 staining HepG2 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 HepG2 cell lysate using E2F6 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-E2F6 antibody

Description: E2F6 Inhibitor of E2F-dependent transcription. Binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3'. Has a preference for the 5'-TTTCCCGC-3' E2F recognition site. E2F-6 lacks the transcriptional activation and pocket protein binding domains. 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. May silence expression via the recruitment of a chromatin remodeling complex containing histone H3-K9 methyltransferase activity.
Function: Inhibitor of E2F-dependent transcription. Binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3'. Has a preference for the 5'-TTTCCCGC-3' E2F recognition site. E2F6 lacks the transcriptional activation and pocket protein binding domains. 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. 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.
Subunit Structure: Component of the DRTF1/E2F transcription factor complex. Forms heterodimers with DP family members. Part of the E2F6.com-1 complex in G0 phase composed of E2F6, MGA, MAX, TFDP1, CBX3, BAT8, EUHMTASE1, RING1, RNF2, MBLR, L3MBTL2 and YAF2. Component of some MLL1/MLL complex, at least composed of the core components KMT2A/MLL1, ASH2L, HCFC1/HCF1, WDR5 and RBBP5, as well as the facultative components BAP18, CHD8, E2F6, HSP70, INO80C, KANSL1, LAS1L, MAX, MCRS1, MGA, KAT8/MOF, PELP1, PHF20, PRP31, RING2, RUVB1/TIP49A, RUVB2/TIP49B, SENP3, TAF1, TAF4, TAF6, TAF7, TAF9 and TEX10.
Similarity: Belongs to the E2F/DP family.

References	Ai XY, Zhang H, Gao SY, Qin Y, Zhong WL, Gu J, Li M, Qiao KL, Tian Q, Cui ZH, Yang JH, Bi Z, Xiao T, Chen S, Liu HJ, Zhou HG, Sun T, Yang C; Journal: Oncotarget. Sesquiterpene binding Gly-Leu-Ser/Lys-"co-adaptation pocket" to inhibit lung cancer cell epithelial-mesenchymal transition.

NCBI AND UNIPROT INFORMATION

NCBI GI #	506949344
NCBI GeneID	1876
NCBI Accession #	NP_001265204.1
NCBI GenBank Nucleotide #	NM_001278275.1
UniProt Accession #	O75461; O60544; Q53QY9; Q6Q9Z6; Q7Z2H6; A8K2Z8; G5E936
Molecular Weight	Observed: 31 kDa Predicted: 32 kDa
NCBI Official Full Name	transcription factor E2F6 isoform 2
NCBI Official Synonym Full Names	E2F transcription factor 6
NCBI Official Symbol	E2F6
NCBI Official Synonym Symbols	E2F-6
NCBI Protein Information	transcription factor E2F6
UniProt Protein Name	Transcription factor E2F6
UniProt Gene Name	**E2F6**
UniProt Synonym Gene Names	E2F-6

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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