

Rabbit TFDP1 Polyclonal Antibody | anti-TFDP1 antibody

TFDP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327038	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TFDP1; Polyclonal Antibody; TFDP1 Antibody; DP 1; DP1; DRTF1; DRTF1-polypeptide 1; E2F dimerization partner 1; E2F related transcription factor; TFDP1_HUMAN; Transcription factor Dp-1; Transcription factor sequence-specific; anti-TFDP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TFDP1 antibody detects endogenous levels of total TFDP1
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	410
Applicable Applications for anti-TFDP1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TFDP1
Subcellular Location	Nucleus.
Tissue Specificity	Highest levels in muscle. Also expressed in brain, placenta, liver and kidney. Lower levels in lung and pancreas. Not detected in heart.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of HeLa whole cell lysates, using TFDP1 Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA327038 staining HeLa cells 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) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA327038 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample 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.

ADDITIONAL INFORMATION

Related Product Information for anti-TFDP1 antibody	Description: This gene encodes a member of a family of transcription factors that heterodimerize with E2F proteins to enhance their DNA-binding activity and promote transcription from E2F target genes. The encoded protein functions as part of this complex to control the transcriptional activity of numerous genes involved in cell cycle progression from G1 to S phase. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 1, 15, and X. Function: Can stimulate E2F-dependent transcription. Binds DNA cooperatively with E2F family members 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 (PubMed:8405995, PubMed:7739537). The E2F1:DP complex appears to mediate both cell proliferation and apoptosis. Blocks adipocyte differentiation by repressing CEBPA binding to its target gene promoters (PubMed:20176812). Subunit Structure: Component of the E2F:DP transcription factor complex. Forms heterodimers with E2F family members. The complex can interact with hypophosphorylated retinoblastoma protein RB1 and related proteins (RBL1 and RBL2) that inhibit the E2F transactivation domain. This repression involves recruitment of histone deacetylase (HDAC). During the cell cycle, from mid-to-late G1 phase, RB family members become phosphorylated, detach from the DRTF1/E2F complex to render E2F transcriptionally active. Viral oncoproteins, notably E1A, T-antigen and HPV E7, are capable of sequestering RB protein, thus releasing the active complex. Part of the E2F6.com-1 complex in G0 phase is composed of E2F6, MGA, MAX, TFDP1, CBX3, BAT8, EUHMTASE1, RING1, RNF2, MBLR, L3MBTL2 YAF2. 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. The complex TFDP1:E2F1 interacts with CEBPA; the interaction prevents CEBPA binding to target gene promoters and represses its transcriptional activity (PubMed:20176812). Post-translational Modifications: Phosphorylation by E2F1-bound cyclin A-CDK2, in the S phase, inhibits E2F-mediated DNA binding and transactivation. Ubiquitinated by the BCR(KBTBD5) complex, leading to its subsequent degradation. Similarity: Belongs to the E2F/DP family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6005900
NCBI GeneID	7027
NCBI Accession #	NP_009042.1
NCBI GenBank Nucleotide #	NM_007111.4
UniProt Accession #	Q14186; Q5JSB4; Q8IZL5; B4DLQ9
Molecular Weight	Observed: 45 kDa Predicted: 46 kDa
NCBI Official Full Name	transcription factor Dp-1
NCBI Official Synonym Full Names	transcription factor Dp-1
NCBI Official Symbol	TFDP1
NCBI Official Synonym Symbols	DP1; DILC; Dp-1; DRTF1
NCBI Protein Information	transcription factor Dp-1

UniProt Protein Name	Transcription factor Dp-1
UniProt Gene Name	TFDP1
UniProt Synonym Gene Names	DP1; DRTF1

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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