

Rabbit TP63 Polyclonal Antibody | anti-TP63 antibody

TP63 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326619	Rabbit	Human, Mouse, Rat, Monkey	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TP63; Polyclonal Antibody; TP63 Antibody; AIS; Amplified in squamous cell carcinoma; B(p51A); B(p51B); Chronic ulcerative stomatitis protein; CUSP; DN p63 alpha 1; DNp63; EEC3; id:ibd3516; Keratinocyte transcription factor; Keratinocyte transcription factor KET; KET; LMS; MGC115972; MGC192897; NBP; OFC8; OTTHUMP00000209732; OTTHUMP00000209733; OTTHUMP00000209734; OTTHUMP00000209735; OTTHUMP00000209737; OTTHUMP00000209738; OTTHUMP00000209739; OTTHUMP00000209740; OTTHUMP00000209741; OTTHUMP00000209742; OTTHUMP00000209743; OTTHUMP00000209744; p40; p51; P51/P63; p53-related protein p63; p53CP; p63; P63_HUMAN; p73H; p73L; RHS; SHFM4; TAp63alpha; TP53CP; TP53L; TP73L; Transformation related protein 63; Transformation-related protein 63; Trp53rp1; Trp63; Tumor protein 63; Tumor protein p53-competing protein; Tumor protein p53-like; Tumor protein p63; Tumor protein p63 deltaN isoform delta; Tumor protein p73; Tumor protein p73-like; anti-TP63 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	IgG
Specificity	TP63 antibody detects endogenous levels of total TP63
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	555
Applicable Applications for anti-TP63 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TP63
Subcellular Location	Nucleus.
Tissue Specificity	Widely expressed, notably in heart, kidney, placenta, prostate, skeletal muscle, testis and thymus, although the precise isoform varies according to tissue type. Progenitor cell layers of skin, breast, eye and prostate express high levels of DeltaN-type isoforms. Isoform 10 is predominantly expressed in skin squamous cell carcinomas, but not in normal skin tissues.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

AAA326619 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.



IF (Immunofluorescence)

AAA326619 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.



WB (Western Blot)

Western blot analysis of COS7 cell lysate, using TP63 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TP63 antibody

Description: The p53 tumor suppressor protein plays a major role in cellular response to DNA damage and other genomic aberrations. Activation of p53 can lead to either cell cycle arrest and DNA repair or apoptosis (1). In addition to p53, mammalian cells contain two p53 family members, p63 and p73, which are similar to p53 in both structure and function (2). While p63 can induce p53-responsive genes and apoptosis, mutation of p63 rarely results in tumors (2). Amplification of the p63 gene is frequently observed in squamous cell carcinomas of the lung, head and neck (2, 3). The p63 gene contains an alternative transcription initiation site that yields a 40 kDa deltaNp63 lacking the transactivation domain, and alternative splicing at the carboxy-terminus yields the alpha, beta and gamma isoforms (3, 4).

Function: Acts as a sequence specific DNA binding transcriptional activator or repressor. The isoforms contain a varying set of transactivation and auto-regulating transactivation inhibiting domains thus showing an isoform specific activity. Isoform 2 activates RIPK4 transcription. May be required in conjunction with TP73/p73 for initiation of p53/TP53 dependent apoptosis in response to genotoxic insults and the presence of activated oncogenes. Involved in Notch signaling by probably inducing JAG1 and JAG2. Plays a role in the regulation of epithelial morphogenesis. The ratio of DeltaN-type and TA*-type isoforms may govern the maintenance of epithelial stem cell compartments and regulate the initiation of epithelial stratification from the undifferentiated embryonal ectoderm. Required for limb formation from the apical ectodermal ridge. Activates transcription of the p21 promoter.

Subunit Structure: Binds DNA as a homotetramer. Isoform composition of the tetramer may determine transactivation activity. Isoforms Alpha and Gamma interact with HIPK2. Interacts with SSRP1, leading to stimulate coactivator activity. Isoform 1 and isoform 2 interact with WWP1. Interacts with PDS5A. Isoform 5 (via activation domain) interacts with NOC2L.

Post-translational Modifications: May be sumoylated. Ubiquitinated. Polyubiquitination involves WWP1 and leads to proteasomal degradation of this protein.

Similarity: The transactivation inhibitory domain (TID) can interact with, and inhibit the activity of the N-terminal transcriptional activation domain of TA*-type isoforms. Belongs to the p53 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	169234657
NCBI GeneID	8626
NCBI Accession #	NP_001108450.1
NCBI GenBank Nucleotide #	NM_001114978.1
UniProt Accession #	Q9H3D4; O75080; O75195; O75922; O76078; Q6VEG2; Q6VEG3; Q6VEG4; Q6VFJ1; Q6VFJ2; Q6VFJ3; Q6VH20
Molecular Weight	Observed: 77 kDa Predicted: 77 kDa

NCBI Official Full Name	tumor protein 63 isoform 2
NCBI Official Synonym Full Names	tumor protein p63
NCBI Official Symbol	TP63
NCBI Official Synonym Symbols	AIS; KET; LMS; NBP; RHS; p40; p51; p63; EEC3; OFC8; p73H; p73L; SHFM4; TP53L; TP73L; p53CP; TP53CP; B(p51A); B(p51B)
NCBI Protein Information	tumor protein 63
UniProt Protein Name	Tumor protein 63
UniProt Gene Name	TP63
UniProt Synonym Gene Names	KET; P63; P73H; P73L; TP73L; p63; CUSP; TP63; p73L

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
 Online datasheet: <https://stage.aaabiotech.com/polyclonal/tp63-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326619>