

TP63 Antibody (C-term) Blocking peptide Synthetic peptide Catalog # BP13965b

Specification

TP63 Antibody (C-term) Blocking peptide - Product Information

Primary Accession

<u>Q9H3D4</u>

TP63 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 8626

Other Names

Tumor protein 63, p63, Chronic ulcerative stomatitis protein, CUSP, Keratinocyte transcription factor KET, Transformation-related protein 63, TP63, Tumor protein p73-like, p73L, p40, p51, TP63, KET, P63, P73H, P73L, TP73L

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13965b was selected from the C-term region of TP63. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TP63 Antibody (C-term) Blocking peptide - Protein Information

Name TP63

Synonyms KET, P63, P73H, P73L, TP73L

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.

Cellular Location Nucleus

Tissue Location

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

TP63 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

<u>Blocking Peptides</u>

TP63 Antibody (C-term) Blocking peptide - Images

TP63 Antibody (C-term) Blocking peptide - Background

This gene encodes a member of the p53 family oftranscription factors. An animal model, p63 -/mice, has beenuseful in defining the role this protein plays in the developmentand maintenance of stratified epithelial tissues. p63 -/- mice haveseveral developmental defects which include the lack of limbs andother tissues, such as teeth and mammary glands, which develop as aresult of interactions between mesenchyme and epithelium. Mutationsin this gene are associated with ectodermal dysplasia, and cleftlip/palate syndrome 3 (EEC3); split-hand/foot malformation 4(SHFM4); ankyloblepharon-ectodermal defects-cleft lip/palate; ADULTsyndrome (acro-dermato-ungual-lacrimal-tooth); limb-mammarysyndrome; Rap-Hodgkin syndrome (RHS); and orofacial cleft 8. Bothalternative splicing and the use of alternative promoters resultsin multiple transcript variants encoding different proteins. Manytranscripts encoding different proteins have been reported but thebiological validity and the full-length nature of these variantshave not been determined.

TP63 Antibody (C-term) Blocking peptide - References

Du, Z., et al. Cancer Sci. 101(11):2417-2424(2010)Lena, A.M., et al. Biochem. Biophys. Res. Commun. 401(4):568-573(2010)Miki, D., et al. Nat. Genet. 42(10):893-896(2010)Yang, A., et al. PLoS ONE 5 (7), E11572 (2010) :Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :