

Recombinant Human TP63

Cat. No. TP63-30576TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant full length Human p63 expressed in Sf9 cells using an N terminal proprietary tag; predicted MWt: 93 kDa inclusive of tag;

Species Human

Source Insect Cells

ProteinLength 680 amino acids

Description

This gene encodes a member of the p53 family of transcription factors. An animal model, p63 ^{-/-} mice, has been useful in defining the role this protein plays in the development and maintenance of stratified epithelial tissues. p63 ^{-/-} mice have several developmental defects which include the lack of limbs and other tissues, such as teeth and mammary glands, which develop as a result of interactions between mesenchyme and epithelium. Mutations in this gene are associated with ectodermal dysplasia, and cleft lip/palate syndrome 3 (EEC3); split-hand/foot malformation 4 (SHFM4); ankyloblepharon-ectodermal defects-cleft lip/palate; ADULT syndrome (acro-dermato-ungual-lacrima-tooth); limb-mammary syndrome; Rap-Hodgkin syndrome (RHS); and orofacial cleft 8. Both alternative splicing and the use of alternative promoters results in multiple transcript variants encoding different proteins. Many transcripts encoding different proteins have been reported but the biological validity and the full-length nature of these variants have not been determined.

Molecular Weight 92.000kDa

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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 i
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the p53 family. Contains 1 SAM (sterile alpha motif) domain.

GENE INFORMATION

Gene Name	TP63 tumor protein p63 [Homo sapiens]
Official Symbol	TP63
Synonyms	TP63; tumor protein p63; TP53CP, TP53L, TP73L, tumor protein p53 competing protein , tumor protein p53 like , tumor protein p73 like; tumor protein 63; EEC3; KET; NBP; OFC8; p51; p53CP; p63; p73H; p73L; SHFM4;
Gene ID	8626
mRNA Refseq	NM_001114978

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Protein Refseq	NP_001108450
MIM	603273
Uniprot ID	Q9H3D4
Chromosome Location	3q27-q29
Pathway	Apoptosis, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; TP53 network, organism-specific biosystem;
Function	DNA binding; chromatin binding; damaged DNA binding; double-stranded DNA binding; identical protein binding;

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