Antibodies

Anti-Human p63 (deltaN) Antibody, Clone Poly6190

Rabbit polyclonal antibody against human p63 (deltaN), unconjugated

Catalog #60154

200 µL

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Product Description

The Poly6190 antibody reacts with the deltaN isoforms of human p63, a member of the p53 family of transcription factors. Alternative splicing of the p63 transcript gives rise to two classes of isoforms. The TA isoforms (TA p63-α, -β, -γ) possess an N-terminal transactivation domain, while the deltaN isoforms (deltaN p63-α, -β, -γ) lack the transactivation domain. The TA isoforms are capable of transactivating p53 targets, whereas they antagonize p53. The deltaN isoforms are generally dominant to the TA isoforms and repress the latter. The p63 protein is localized to the nucleus and plays an important role in epithelial stem cell regeneration, epidermal morphogenesis, limb development, and stratification.

Target Antigen Name:	p63 (deltaN)
Alternative Names:	TP63, Tumor protein P63
Gene ID:	8626
Species Reactivity:	Human (recognizes deltaN-isoforms)
Host Species:	Rabbit
Clonality:	Polyclonal
Clone:	Not applicable (poly6190)
Isotype:	IgG
Immunogen:	Modified peptide
Conjugate:	Unconjugated

Applications

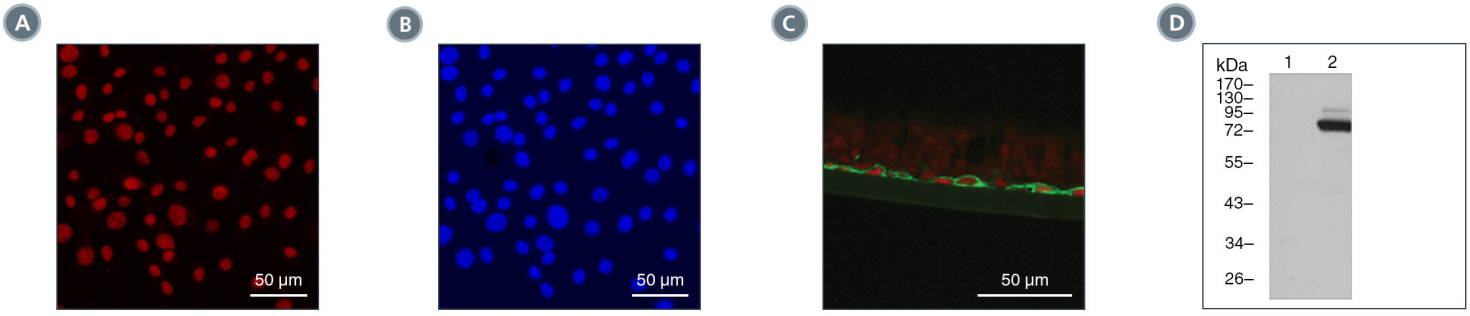
Verified:	ICC, IF, WB
Reported:	IF, IHC, WB
Special Applications:	This antibody has been verified for labeling human airway epithelial basal cells cultured in PneumaCult™-Ex Medium (Catalog #05008) in submerged cultures and PneumaCult™-ALI Medium (Catalog #05001) in air-liquid interface cultures.

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol
Purification:	The antibody was purified by antigen-affinity chromatography.
Stability and Storage:	Product stable at - 20°C when stored undiluted. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	The suggested use of this antibody is: ICC/IF, 1:200 - 1:500 dilution; WB, 1:500 dilution. It is recommended that the antibody be titrated for optimal performance for each application.

Data



(A) Primary human airway epithelial cells were expanded in a submerged culture with PneumaCult™-Ex Medium (Catalog #05008) and labeled with Anti-Human p63 (deltaN) Antibody, Clone Poly6190, followed by a goat anti-rabbit IgG antibody, Alexa Fluor® 594.
(B) DAPI counterstaining of the cells shown in figure (A).
(C) Primary human airway epithelial cells cultured in PneumaCult™-ALI Medium (Catalog #05001) at the air-liquid interface were cryo-sectioned and labeled with Anti-Human p63 (deltaN) Antibody, Clone Poly6190 (red), followed by a goat anti-rabbit IgG antibody, Alexa Fluor® 594 (red), and anti-human NGF Receptor/p75NTR (CD271) antibody, followed by a donkey anti-mouse IgG antibody, Alexa Fluor® 488 (green).
(D) Western blot analysis of non-transfected HEK293 cell lysates (negative control; lane 1) and p63 (deltaN)-transfected HEK293 cell lysates (lane 2). Lysates were resolved by electrophoresis, transferred to nitrocellulose, and probed with Anti-Human p63 (deltaN) Antibody, Clone Poly6190. Proteins were visualized using an HRP-conjugated donkey anti-rabbit IgG secondary antibody and chemiluminescence detection.

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

1. Koh LF et al. (2015) Transcriptional control of late differentiation in human keratinocytes by TAp63 and Notch. Exp Dermatol 24(10): 754–60.
2. Vaughan AE et al. (2015) Lineage-negative progenitors mobilize to regenerate lung epithelium after major injury. Nature 517(7536): 621–5. (IF)
3. Zhou Y et al. (2011) Reduced expression of **ΔN**p63**α** in cervical squamous cell carcinoma. Clin Invest Med 34(3): E184–91. (IHC, WB)
4. Di Girolamo N et al. (2009) A contact lens-based technique for expansion and transplantation of autologous epithelial progenitors for ocular surface reconstruction. Transplantation 87(10): 1571–8. (IHC)
5. Kim ID et al. (2009) Expression of p63 and its Isoform, deltaNp63, in Non-Small Cell Lung Carcinoma. Korean J Pathol 43(4): 321. (IHC)
6. Medawar A et al. (2008) **Δ**Np63 is essential for epidermal commitment of embryonic stem cells. PLoS One 3(10): e3441. (IF, WB)
7. Bénard J et al. (2003) TP53 family members and human cancers. Hum Mutat 21(3): 182–91.
8. Yang A et al. (1998) p63, a p53 homolog at 3q27–29, encodes multiple products with transactivating, death-inducing, and dominant-negative activities. Mol Cell 2(3): 305–16.