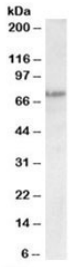
# TP63 Antibody / Cell Proliferation Regulatory Protein Antibody (R33897)

| Catalog No. | Formulation | Size |
|---|---|---|
| R33897-100UG | 0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Predicted Reactivity** | Dog, Mouse, Pig, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Goat |
| **Clonality** | Polyclonal (goat origin) |
| **Isotype** | Goat Ig |
| **Purity** | Antigen affinity |
| **Gene ID** | 8626 |
| **Applications** | Western Blot : 0.3-1ug/ml<br>ELISA (peptide) LOD : 1:64000 |
| **Limitations** | This TP63 antibody is available for research use only. |




TP63 Antibody. Western blot analysis of A431 cell lysate using a TP63 antibody as a cell proliferation regulatory protein marker demonstrates detection of Tumor protein 63 (TP63) as a band near ~70 kDa, consistent with the expected molecular weight range of 63-77 kDa for TP63 isoforms. The band is well-defined with minimal background, supporting specific recognition of TP63 in denatured lysates. The observed signal aligns with known expression of TP63 in proliferative epithelial-derived cell lines such as A431, where TP63 contributes to maintenance of growth and undifferentiated cellular states. The clean banding pattern supports use of this TP63 antibody for western blot analysis of proliferation-associated TP63 expression.

## Description

Tumor protein 63 (TP63) is a nuclear transcription factor that plays a key role in regulating epithelial cell proliferation, growth control, and maintenance of proliferative compartments. TP63 Antibody is widely used as a cell proliferation regulatory protein antibody for studying how TP63 influences cell cycle progression and epithelial expansion, where nuclear expression reflects active regulation of growth-related transcriptional programs.

TP63 antibody, also known as p63 antibody or Tumor protein 63 antibody in the literature, is strongly expressed in proliferative basal epithelial cells that retain the capacity for division and tissue renewal. As a proliferation regulatory protein antibody, TP63 provides insight into cellular growth dynamics and helps identify populations of actively dividing or growth-competent cells within tissues.

The proliferation differentiator is particularly relevant in studies of tissue maintenance, regeneration, and cancer biology. TP63 Antibody enables identification of proliferative epithelial cell populations and supports analysis of how these cells contribute to tissue expansion, repair, and tumor growth. Nuclear staining patterns reflect the presence of cells engaged in active transcriptional regulation of proliferation-related pathways.

TP63 isoforms, especially deltaNp63, are associated with promoting proliferation and maintaining undifferentiated cellular states. Nuclear TP63 expression reflects activation of transcriptional programs that drive cell cycle progression, inhibit differentiation, and support expansion of epithelial compartments.

In tissue-based applications, TP63 Antibody allows researchers to evaluate proliferative zones within epithelial structures, identify regions of active cell division, and study the relationship between proliferation and differentiation. The nuclear-restricted signal provides a direct and interpretable readout of TP63 activity within these contexts.

TP63 Antibody as a cell proliferation regulatory protein antibody is particularly useful for investigating tumor growth, epithelial regeneration, and cellular expansion processes. It supports analysis of how TP63 contributes to both normal tissue maintenance and disease-associated proliferation.

Tumor protein 63 antibody serves as a valuable marker for studying epithelial proliferation, cell cycle regulation, and TP63-driven growth processes, enabling detailed investigation of cellular dynamics in both normal and pathological conditions.

## Application Notes

Optimal dilution of the TP63 Antibody / Cell Proliferation Regulatory Protein Antibody should be determined by the researcher.

1. This TP63 antibody will detect isoforms d, e, f, g, and h with predicted molecular weights between 45~66kDa.

## Immunogen

Amino acids ENNAQTQFSEPQYC were used as the immunogen for this TP63 Antibody / Cell Proliferation Regulatory Protein Antibody. This sequence is common to isoforms d, e, f, g, and h.

## Storage

Aliquot and store the TP63 antibody at -20oC.

## Alternate Names

TP63 proliferation marker antibody, p63 cell cycle regulator antibody, Tumor protein 63 growth control antibody, TP63 proliferation antibody