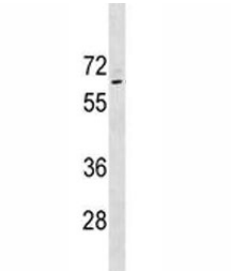
p63 Antibody / Nuclear Transcription Factor Marker Antibody [clone 603CT12.4.3] (F53705)

Catalog No.	Formulation	Size
F53705-0.1ML	In ascites with 0.09% sodium azide	0.1 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Ascites
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgM
Clone Name	603CT12.4.3
Purity	Ascites
UniProt	Q9H3D4
Applications	Western Blot : 1:200-1:1600
Limitations	This p63 antibody is available for research use only.



p63 Antibody. Western blot analysis of K562 cell lysate using a p63 antibody as a nuclear transcription factor marker demonstrates detection of Tumor protein 63 (TP63) as a band within the expected range of approximately 63-77 kDa. The observed signal appears near ~70 kDa, consistent with TP63 isoforms commonly detected in cell lysates. The band is discrete with low background, supporting specific recognition of TP63 in denatured samples. The molecular weight position aligns with the role of TP63 as a nuclear transcription factor, and the clean banding pattern supports use of this p63 antibody for western blot analysis of TP63 expression and isoform detection.

Description

Tumor protein 63 (TP63) is a nuclear transcription factor belonging to the p53 family that regulates gene expression programs controlling epithelial development, proliferation, and differentiation. p63 Antibody is widely used as a nuclear transcription factor marker antibody for detecting TP63 localization and activity within the nucleus, where its expression directly reflects transcriptional regulation in epithelial cells.

p63 antibody, also known as TP63 antibody or Tumor protein 63 antibody in the literature, exhibits highly specific nuclear localization, producing crisp and well-defined staining confined to the nucleus. As a nuclear transcription factor marker antibody, p63 enables precise identification of transcriptionally active cells and supports studies focused on nuclear protein distribution, chromatin-associated activity, and regulatory signaling pathways.

The nuclear transcription factor differentiator is particularly important because subcellular localization is critical for interpreting protein function. p63 Antibody provides a clean nuclear signal with minimal cytoplasmic background, allowing accurate assessment of protein localization and facilitating co-localization studies with other nuclear markers such as proliferation or DNA-binding proteins. This makes it especially useful in fluorescence-based imaging and high-resolution microscopy applications.

TP63 isoforms regulate transcriptional networks involved in epithelial maintenance, differentiation, and response to cellular stress. Nuclear presence of p63 reflects active engagement in gene regulation, making it a direct readout of transcriptional control mechanisms within cells. Changes in nuclear signal intensity or distribution can indicate shifts in transcriptional activity and cellular state.

In tissue-based applications, p63 Antibody enables visualization of nuclear protein distribution within defined cell populations, supporting analysis of epithelial organization and regulatory function. The distinct nuclear staining pattern enhances interpretability and reduces ambiguity, particularly in complex tissues where multiple cell types coexist.

p63 Antibody as a nuclear transcription factor marker antibody is particularly valuable for studies of gene regulation, nuclear signaling pathways, and transcriptional control in epithelial systems. Its ability to provide a precise and localized signal supports both qualitative and quantitative analysis of TP63 expression.

Tumor protein 63 antibody serves as a reliable marker for nuclear transcription factor detection, enabling detailed investigation of TP63-driven gene regulation, cellular differentiation, and epithelial biology through clear and consistent nuclear localization.

Application Notes

Titration of the p63 Antibody / Nuclear Transcription Factor Marker Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 651-680 from the human protein was used as the immunogen for this p63 Antibody / Nuclear Transcription Factor Marker Antibody.

Storage

Aliquot the p63 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

p63 nuclear marker antibody, TP63 transcription factor antibody, Tumor protein 63 nuclear protein antibody, p63 gene regulator antibody