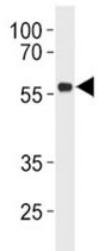


## p53 Antibody (F49539)

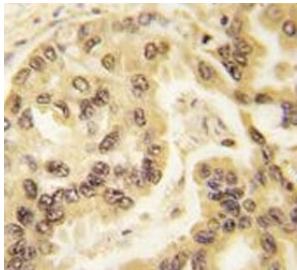
Catalog No.	Formulation	Size
F49539-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F49539-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

**Bulk quote request**

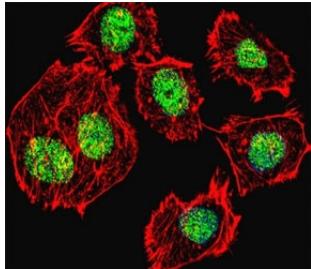
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Predicted Reactivity</b>	Primate
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity
<b>UniProt</b>	P04637
<b>Applications</b>	Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50 Immunofluorescence : 1:10-1:50
<b>Limitations</b>	This p53 antibody is available for research use only.



p53 antibody western blot analysis in Daudi lysate.



IHC analysis of FFPE human lung carcinoma tissue stained with p53 antibody



Fluorescent confocal image of U251 cell stained with p53 antibody at 1:25. p53 immunoreactivity is localized to the nucleus.

## Description

Tumor protein p53, a nuclear protein, plays an essential role in the regulation of cell cycle, specifically in the transition from G0 to G1. It is found in very low levels in normal cells, however, in a variety of transformed cell lines, it is expressed in high amounts, and believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing DNA-binding, oligomerization and transcription activation domains. It is postulated to bind as a tetramer to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of the TP53 gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome.

## Application Notes

Titration of the p53 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 293-322 from the human protein was used as the immunogen for this p53 antibody.

## Storage

Aliquot the p53 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.