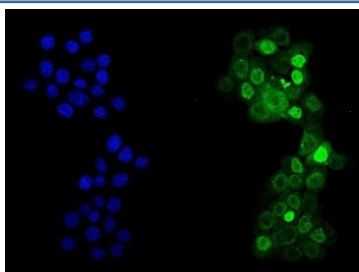


p53 Antibody (R31441)

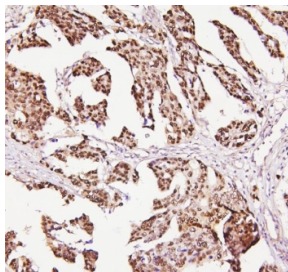
Catalog No.	Formulation	Size
R31441	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

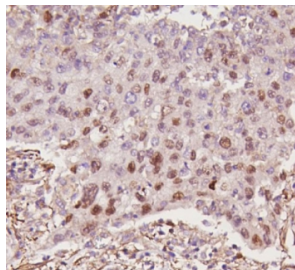
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P04637
Localization	Nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This p53 antibody is available for research use only.



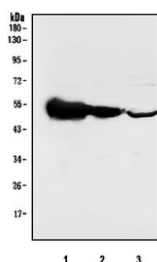
Immunofluorescent staining of FFPE human A431 cells with p53 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



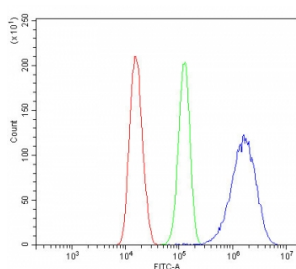
IHC staining of FFPE human ovarian cancer tissue with p53 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human lung cancer tissue with p53 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) Caco-2, 2) HepG2 and 3) A431 cell lysate with p53 antibody. Predicted molecular weight ~53 kDa.



Flow cytometry testing of fixed and permeabilized human Caco-2 cells with p53 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= p53 antibody.

Description

The p53 tumor antigen induces cell cycle arrest or apoptosis in response to sub-lethal or severe DNA damage, respectively, by differential transcription of target genes and through transcription-independent apoptotic functions.

Application Notes

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

Immunogen

Human partial recombinant protein (AA 74-393) was used as the immunogen for this p53 antibody.

Storage

After reconstitution, the p53 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

