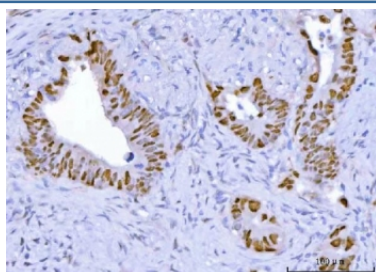


## TP53 Antibody / Cellular tumor antigen p53 (RQ7263)

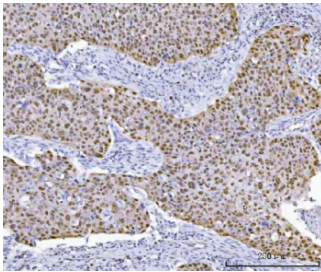
Catalog No.	Formulation	Size
RQ7263	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

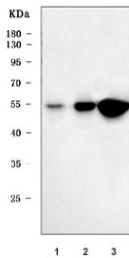
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	P04637
<b>Localization</b>	Nuclear, some cytoplasmic expression
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This TP53 antibody is available for research use only.



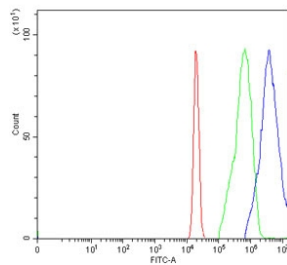
IHC staining of FFPE human colorectal adenocarcinoma tissue with TP53 antibody.  
HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human esophageal squamous carcinoma tissue with TP53 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) A431, 2) T-47D and 3) 293T cell lysate with TP53 antibody. Expected molecular weight ~53 kDa.



Flow cytometry testing of human A431 cells with TP53 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TP53 antibody.

## Description

This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants.

## Application Notes

Optimal dilution of the TP53 antibody should be determined by the researcher.

## Immunogen

Recombinant human protein (amino acids M1-D186) was used as the immunogen for the TP53 antibody.

## Storage

After reconstitution, the TP53 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

