

## p53 antibody [DO1]

**Cat. No. GTX70214**

|                     |                                           |
|---------------------|-------------------------------------------|
| <b>Host</b>         | Mouse                                     |
| <b>Clonality</b>    | Monoclonal                                |
| <b>Isotype</b>      | IgG2a                                     |
| <b>Applications</b> | WB, ICC/IF, IHC-P, IHC-Fr, FCM, IP, ELISA |
| <b>Reactivity</b>   | Human, Mouse                              |

References ( 40 )

★★★★★ Review ( 2 )

Package

100 µl

### PRODUCT

#### Summary

p53 antibody recognizes p53 protein, which has a predicted molecular weight of 44 kDa but is typically detected by western blot at 53 kDa. p53, known widely as a tumor suppressor, plays critical roles in various cellular processes including cell cycle regulation, DNA repair, and apoptosis. p53 is mutated in many human cancers.

#### Applications

#### Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

| Suggested dilution | Recommended dilution |
|--------------------|----------------------|
| WB                 | 1:500-1:10000        |
| ICC/IF             | Assay dependent      |
| IHC-P              | 1:1000               |
| IHC-Fr             | Assay dependent      |
| FCM                | Assay dependent      |
| IP                 | 1:100-1:500          |
| ELISA              | Assay dependent      |

**Note : Antigen retrieval can be done with EDTA at pH8.0 - Some customers have stated that the product works well without antigen retrieval.**

Not tested in other applications.

**Calculated MW** 44 kDa. ( [Note](#) )

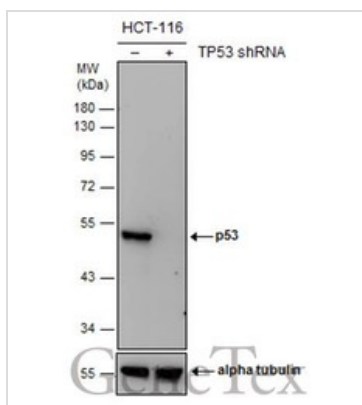
### Properties

|                      |                                                                                                                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>          | Liquid                                                                                                                                                                                                                     |
| <b>Buffer</b>        | PBS, 20% Glycerol                                                                                                                                                                                                          |
| <b>Preservative</b>  | No preservatives                                                                                                                                                                                                           |
| <b>Storage</b>       | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |
| <b>Concentration</b> | 0.25 mg/ml (Please refer to the vial label for the specific concentration.)                                                                                                                                                |

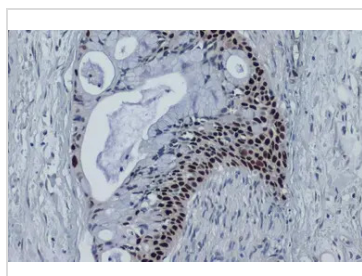


For full product information, images and publications, please visit our [website](#).

|                     |                                                                                                                                                                                                                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen</b>    | Recombinant human p53 expressed in E. coli.                                                                                                                                                                                                                                                                                          |
| <b>Purification</b> | Protein A purified<br>From tissue culture supernatant                                                                                                                                                                                                                                                                                |
| <b>Conjugation</b>  | Unconjugated                                                                                                                                                                                                                                                                                                                         |
| <b>Note</b>         | For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.<br><br>Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product. |

**DATA IMAGES**

**GTx70214 WB Image**

Non-transfected (–) and transfected (+) HCT116 whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with p53 antibody [DO1] (GTx70214) diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody (GTx213111-01) was used to detect the primary antibody.

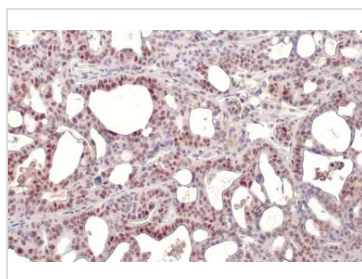

**GTx70214 IHC-P Image**

p53 antibody [DO1] detects p53 protein at nucleus by immunohistochemical analysis.

Sample: Paraffin-embedded human pancreatic cancer.

p53 stained by p53 antibody [DO1] (GTx70214) diluted at 1:100.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min


**GTx70214 IHC-P Image**

p53 antibody [DO1] detects p53 protein at nucleus by immunohistochemical analysis.

Sample: Paraffin-embedded human NCI-H1299 xenograft.

p53 stained by p53 antibody [DO1] (GTx70214) diluted at 1:100.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



For full product information, images and publications, please visit our [website](https://www.genetex.com).