



## Product Information Sheet

### Monoclonal Anti-p53

**Catalogue No.** MA1078

**Lot No.** 08A12

**Clone:** IMD-53

**Ig type:** mouse IgG2a

**Size:** 100µg/vial

#### Specificity

Human.

No cross reactivity with other proteins.

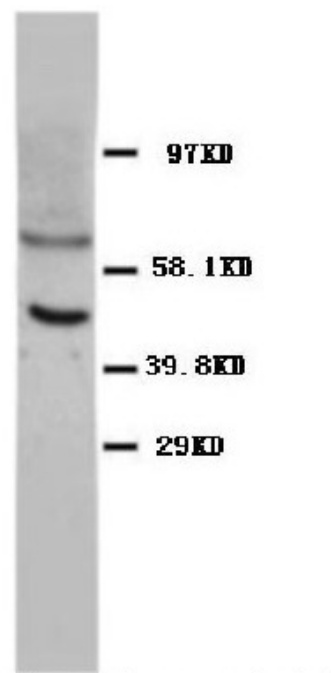
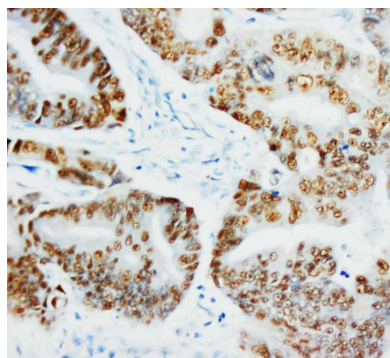
#### Recommended application

*Western blot*

*Immunohistochemistry(P)*

*Immunohistochemistry(F)*

*Immunocytochemistry*



#### Immunogen

Recombinant human wild-type p53 protein.

#### Purification

Purified by the goat anti-mouse IgG affinity chromatography.

#### Application

*Western blot*

At 0.5-1µg/ml with the appropriate system to detect p53 in cells and tissues.

*Immunohistochemistry(P)*

At 0.5-2µg/ml to detect p53 in formalin fixed and paraffin embedded tissues.

*Immunohistochemistry(F)*

At 0.5-2µg/ml to detect p53 in formalin or acetone fixed tissues.

*Immunocytochemistry*

Suitable

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

#### Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN<sub>3</sub> as preservative.

**To reorder contact us at:**

**Antagene, Inc.**

**Toll Free: 1(866)964-2589**

**email: Info@antageneinc.com**

**FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.**

**Reconstitution**

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

**Storage**

At -20°C for one year. After reconstitution, at 4°C for three month. It can also be aliquotted and stored frozen at -20°C for longer time.

## **BACKGROUND**

The p53 tumor antigen is found in increased amounts in a wide variety of transformed cells. The protein is also detectable in many actively proliferating, nontransformed cells, but it is undetectable or present at low levels in resting cells. This protein induces cell cycle arrest or apoptosis in response to sublethal or severe DNA damage, respectively, by differential transcription of target genes and through transcription-independent apoptotic functions. The p53 protein contains 393 amino acids. Human p53 tumour antigen is Located to band 17p13. p53 mutations are common in pancreatic cancer and are absent in chronic pancreatitis

## **REFERENCE**

1. Isobe, M.; Emanuel, B. S.; Givol, D.; Oren, M.; Croce, C. M. : Localization of gene for human p53 tumour antigen to band 17p13. Nature 320: 84-85, 1986.
2. Casey, G.; Yamanaka, Y.; Freiss, H.; Kobrin, M. S.; Lopez, M. E.; Buchler, M.; Beger, H. G.; Korc, M. : p53 mutations are common in pancreatic cancer and are absent in chronic pancreatitis. Cancer Lett. 69: 151-160, 1993.