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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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p53 (a.a. 16-25). Mouse Monoclonal Antibody
Moue anti human p53

BACKGROUND

p53 is a 53 kDa transcription factor that can inhibit cell cycle progression or induce apoptosis in response to stress or DNA damage. Disruption of the p53 signalling pathway through various mechanisms is the most common alteration in human cancer occurring in over half of all tumors. The p53 protein is short lived and expressed at low levels in normal cells but accumulates and/or is activated in cells that have undergone genotoxic damage or oncogene activation. Many tumor derived and transformed cell lines express elevated levels of mutant p53 protein. Other genes also implicated in the downstream effects as a result of p53 activation are: p21WAF1, GADD45, 14-3-3, bax, Fas/APO1, KILLER/ DR5, Tsp1, IGF-BP3 and others.

ORDERING INFORMATION

CATALOG NUMBER

X1157M

SIZE

100 µg

FORM

Unconjugated

HOST/CLONE

Mouse Clone X77

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG1

APPLICATIONS

Western Blot, ELISA, Immunoprecipitation

SPECIES REACTIVITY

Human, Mouse, Xenopus

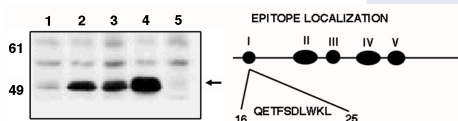
ACCESSION NUMBER

Human P04637

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from immunized with full length Xenopus p53 protein and mouse myeloma cells.

Western blot analysis using Manti-p53 cln. X77 antibody at 10 µg/ml on HCT116 cell lysate (1), HCT116 cell lysate activated with adriamycin (2), p21^{-/-} cell lysate (3), P21^{-/-} cell lysate activated with ADR (4) and p53^{-/-} activated with ADR. ADR activates p53 in cells. Also shown is a graphic representation of the epitope location.



POSITIVE CONTROL/TISSUE EXPRESSION

HCT116 cell lysate

COMMENTS

Detects p53 protein by Western blot at 1 to 10 $\mu\text{g/ml}$. Detects a band at approximately 53 kDa in HCT116 cell lysate. Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Protein A/G Chromatography

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C . Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Zeng, X., et al. UV but not gamma irradiation accelerates p53-induced apoptosis of teratocarcinoma cells by repressing MDM2 transcription. *Cancer Res.* 2000, 60, 6184-6188
2. Hussain, S.P., et al. p53 tumor suppressor gene: at the crossroads of molecular carcinogenesis, molecular epidemiology and human risk assessment. *Ann. N.Y. Acad. Sci.* 2000, 919, 79-85
3. Hellin, A.C., et al. Roles of Nuclear Factor-kappaB, p53 and p21/WAF1 in Daunomycin-induced cell cycle arrest and apoptosis. *J. Pharmacol. Exp. Ther.* 2000, 295, 870-878
4. Portefaix, J.M., et al. 'Critical residues of epitopes recognized by several anti-p53 monoclonal antibodies correspond to key residues of p53 involved in interactions with the mdm2 protein.' *J. Immunol. Methods.* 2000, 244(1-2), 17-28.

PRODUCT SPECIFIC REFERENCES