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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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MTBP (IN2). Rabbit Antigen Immunoaffinity Purified Polyclonal
Mdm2 transformed 3T3 cell double minute 2, p53 binding protein

BACKGROUND

The p53 tumor-suppressor gene integrates numerous signals that control cell life and death. Several novel molecules involved in p53 network, including Chk2 , p53R2 (2), p53AIP1 (3), Noxa (4), PIDD (5), PID/MTA2 (6) and MTBP (7), were recently discovered. The transcriptional activity of p53 is modulated by posttranslational regulations of the p53 protein including stabilization and acetylation. P53 transcriptionally activates MDM2 gene then the translated MDM2 protein binds to p53 and promotes the degradation of p53 leading to lowering the concentration of p53 protein. MDM2 inhibits both p53 mediated G1 arrest and apoptosis. A recently discovered protein termed MTBP was found to bind to MDM2 and to inhibit the modulation effect of MDM2 on p53 (7). MTBP is expressed in a variety of normal tissues (7).

IMMUNOGEN

Rabbit polyclonal MTBP antibody was raised against a synthetic peptide (gavcfeedsnsresls) corresponding to amino acids 122 to 139 of human MTBP, which differ from the mouse sequence by three amino acids (7).

ORDERING INFORMATION

CATALOG NUMBER

X1796P

SIZE

100 µg

FORM

Affinity Purified

HOST/CLONE

Rabbit

FORMULATION

Provided as solution in phosphate buffered saline with 0.02% sodium azide

CONCENTRATION

0.5 mg

ISOTYPE

IgG

APPLICATIONS

Western Blot

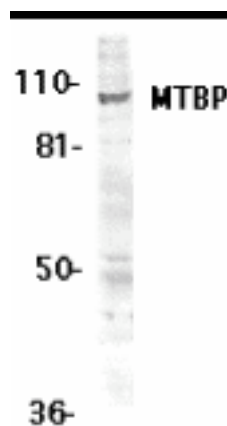
SPECIES REACTIVITY

Human

ACCESSION NUMBER

Human Q96DY7

Western blot analysis of MTBP expression in K562 whole cell lysates with MTBP antibody at 1 µg/ml.



POSITIVE CONTROL/TISSUE EXPRESSION

K562 Cell Lysate

COMMENTS

MTBP (IN2) antibody can be used for detection of MTBP by Western blot at 0.5 to 1 ug/ml. K562 cell lysate can be used as positive control and a 104 kDa band can be detected.

PURIFICATION

Antigen Immunoaffinity Purification

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) Matsuoka S, Huang M, Elledge SJ. Linkage of ATM to cell cycle regulation by the Chk2 protein kinase. *Science*. 1998;282:1893-7
- 2) Tanaka H, Arakawa H, Yamaguchi T, Shiraishi K, Fukuda S, Matsui K, Takei Y, Nakamura Y. A ribonucleotide reductase gene involved in a p53-dependent cell-cycle checkpoint for DNA damage. *Nature*. 2000;404:42-9.
- 3) Oda E, Ohki R, Murasawa H, Nemoto J, Shibue T, Yamashita T, Tokino T, Taniguchi T, Tanaka N. Noxa, a BH3-only member of the Bcl-2 family and candidate mediator of p53-induced apoptosis. *Science*. 2000;288(5468):1053-8.
- 4) Oda K, Arakawa H, Tanaka T, Matsuda K, Tanikawa C, Mori T, Nishimori H, Tamai K, Tokino T, Nakamura Y, Taya Y. p53AIP1, a potential mediator of p53-dependent apoptosis, and its regulation by Ser-46-phosphorylated p53. *Cell*. 2000 Sep 15;102(6):849-62.

PRODUCT SPECIFIC REFERENCES