



Qty: 100 µg/200 µL

Mouse anti-Mina53

Catalog No. 39-7300

Lot No.

Mouse anti-Mina53

FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: M532

ISOTYPE: Mouse IgG_{2a}-kappa

IMMUNOGEN

Recombinant full-length human Mina53, which is 91% homologous with mouse and rat

SPECIFICITY

This antibody is specific for the Mina53 (Myc-induced nuclear antigen, mineral dust-induced gene (MDIG)) protein. On Western blots, it identifies the target band at ~53 kDa.

REACTIVITY

Reactivity has been confirmed with human HeLa cell lysates by Western blotting, SW620 cells by immunofluorescence,⁽¹⁾ and paraffin-embedded human colon cancer⁽¹⁾ and esophageal cancer tissues by immunohistochemistry.

Sample	Western Blotting	ELISA	Immuno-fluorescence	Immuno-histochemistry (paraffin)*
Human	+++	ND	++ ⁽¹⁾	+++ ⁽¹⁾
Mouse	0	ND	ND	0
Rat	0	ND	ND	ND
Immunogen	ND	+++	ND	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western Blotting: 1-3 µg/mL

ELISA: 0.1 – 1.0 µg/mL

Immunofluorescence: 1-3 µg/mL

Immunohistochemistry (paraffin)*: 10 µg/mL

*For immunohistochemistry with formalin-fixed, paraffin-embedded tissues, heat induced epitope retrieval (HIER) with citrate buffer, pH 6.0, is required prior to staining. For IHC in formalin-fixed, paraffin-embedded human tissues, Cat. No. 18-7479 is recommended.

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

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BACKGROUND

Mina53 (Myc-induced nuclear antigen) is a gene that encodes a 53 kDa nuclear and nucleolar protein involved in cell proliferation. Specific inhibition of *Mina53* using an RNA interference method has been shown to severely suppress cell proliferation, suggesting that *Mina53* contributes to cell growth and carcinogenesis induced by *c-Myc*.² *Mina53* has been described as a potential tumor marker in colon cancer¹ and lung cancer,³ where expression levels are distinct between neoplastic and normal tissues. In esophageal squamous cell carcinoma (ESCC), *Mina53* has been proposed as a characteristic feature, with higher expression levels linked to shorter patient survival periods.⁴

REFERENCES

1. Teye K, et al. *Am J Pathol* 164(1):205-216, 2004.
2. Tsuneoka M, et al. *J Biol Chem* 277(38):35450-35459, 2002.
3. Zhang Y, et al. *Oncogene* 24(31):4873-4882, 2005.
4. Tsuneoka M, et al. *Clin Cancer Res* 10(21):734-7356, 2004.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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