



Qty: 1 mL

Mouse anti-MTA1

Catalog No. 39-0700

Lot No.

Mouse anti-MTA1

FORM

This monoclonal antibody is supplied as a 1 mL aliquot of tissue culture supernatant containing 0.1% sodium azide.

CLONE: 1F3F12

ISOTYPE: Mouse IgG_{2b}-kappa

IMMUNOGEN

Synthetic peptide derived from the C-terminal region of the human MTA1 protein

SPECIFICITY

This antibody is specific for the C-terminal region of the human MTA1 protein. On Western blots, it identifies doublets at ~80 kDa. A band of unknown origin is observed at ~150 kDa.

REACTIVITY

Reactivity has been confirmed with human T47D cell lysates and rat testis homogenates by Western blotting, and with formalin-fixed, paraffin-embedded human breast cancer tissues by immunohistochemistry.* Based on amino acid sequence homology, reactivity with mouse is also expected.

Sample	Immuno-precipitation (native)	Western Blotting	ELISA	Immuno-histochemistry (paraffin)*
Human	0*	+++	ND	+++
Rat	0*	+++	ND	ND
Immunogen	N/A	N/A	+++	N/A

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

* No reactivity under condition tested.

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.

ELISA: 1:100 - 1:1000

Western Blotting: 1:30 - 1:100

Immunohistochemistry*: 1:50 - 1:100

* For immunohistochemistry with formalin-fixed, paraffin-embedded tissues, heat induced epitope retrieval (HIER) with EDTA, pH 8.0, is required prior to staining.

STORAGE

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

(cont'd)

www.invitrogen.com

Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: techsupport@invitrogen.com

PI390700

(Rev 10/08) DCC-08-1089

Important Licensing Information - These products may be covered by one or more Limited Use Label Licenses (see the Invitrogen Catalog or our website, www.invitrogen.com). By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BACKGROUND

Metastasis associated protein 1, or metastasis tumor antigen 1 (MTA1), is expressed in metastatic cells, specifically in mammary adenocarcinoma cell lines.¹ Expression of this gene has been correlated with the metastatic potential of gastric, colorectal, esophageal, lung, and hepatocellular carcinomas.^{2,3} The role it plays in metastasis is unclear. MTA1 is widely expressed in normal tissues like brain, ovaries, adrenal glands and virgin mammary glands.

REFERENCES

1. Toh Y, et al. *J Biol Chem* 269:22958-22963, 1994.
2. Toh Y, et al. *Gene* 159:97-104, 1995.
3. Hamatsu T, et al. *Oncol Rep* 10(3):599-604, 2003.

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

ZyMed[®] and ZyMAX[™] are trademarks of Zymed Laboratories Inc. Cy[™] and Sepharose[®] are registered trademarks of Amersham Biosciences Ltd.

For Research Use Only

www.invitrogen.com

Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: techsupport@invitrogen.com

PI390700

(Rev 10/08) DCC-08-1089

Important Licensing Information - These products may be covered by one or more Limited Use Label Licenses (see the Invitrogen Catalog or our website, www.invitrogen.com). By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.