



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C
#5647

MTA1 (D40D1) XP[®] Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P	H M R Mk	Endogenous	78-82	Rabbit IgG	#Q13330	9112

Product Usage Information

Application

Western Blotting
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #54408.

Specificity/Sensitivity

MTA1 (D40D1) XP[®] Rabbit mAb recognizes endogenous levels of total MTA1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human MTA1 protein.

Background

MTA1 (metastasis associated gene 1) was identified in a differential screening of a cDNA library of metastatic and nonmetastatic adenocarcinoma cell lines (1), and was subsequently found to be an integral member of the nucleosome remodeling and deacetylation (NuRD) complex (2,3). MTA1 expression is upregulated under hypoxic conditions and found to enhance angiogenesis through stabilization of HIF-1α (4,5). MTA1 is overexpressed in a wide range of human cancers, and its expression is associated with malignancy and tumor progression (6). MTA1 is an essential downstream effector of c-Myc transformation (7). Recently, MTA1 was demonstrated to play a role in DNA damage response (8,9).

Background References

- Toh, Y. et al. (1994) *J Biol Chem* 269, 22958-63.
- Xue, Y. et al. (1998) *Mol Cell* 2, 851-61.
- Zhang, Y. et al. (1998) *Cell* 95, 279-89.
- Yoo, Y.G. et al. (2006) *EMBO J* 25, 1231-41.
- Moon, H.E. et al. (2006) *Oncol Rep* 16, 929-35.
- Toh, Y. and Nicolson, G.L. (2009) *Clin Exp Metastasis* 26, 215-27.
- Zhang, X.Y. et al. (2005) *Proc Natl Acad Sci U S A* 102, 13968-73.
- Li, D.Q. et al. (2009) *J Biol Chem* 284, 34545-52.
- Li, D.Q. et al. (2010) *J Biol Chem* 285, 10044-52.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween[®] 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

XP is a registered trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no

force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.