

## Anti-MTA1 Antibody

Catalog Number: PA1483

### About MTA1

Metastasis-associated protein MTA1 is a protein that in humans is encoded by the MTA1 gene. This gene encodes a protein that was identified in a screen for genes expressed in metastatic cells, specifically, mammary adenocarcinoma cell lines. Expression of this gene has been correlated with the metastatic potential of at least two types of carcinomas although it is also expressed in many normal tissues. By fluorescence in situ hybridization, mapped the MTA1 gene to chromosome 14q32.3. MTA1 is a component of the chromatin remodeling complex that influences gene transcription by modulating target gene chromatin. MTA1 is widely upregulated in many carcinomas.

### Overview

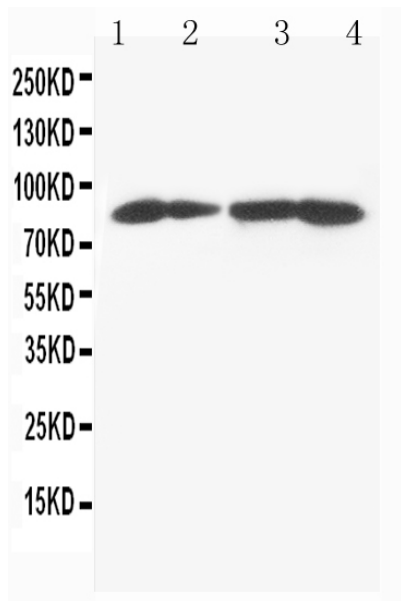
Product Name	Anti-MTA1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Rabbit IgG polyclonal antibody for Metastasis-associated protein MTA1(MTA1) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.
Application	IHC-P, IHC-F, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q13330

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MTA1(676-696aa ETKRAARRPYKPIALRQSQUAL), identical to the related mouse and rat sequences.
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Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and IHC(F).
Cross Reactivity	No cross reactivity with other proteins
Isotype	N/A
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry(Frozen Section), 0.5-1µg/ml, Mouse, Rat, Human Immunohistochemistry(Paraffin-embedded Section), 0.5-1µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5µg/ml, Human, Rat, Mouse  For protocols please visit <a href="https://www.bosterbio.com/protocol-and-troubleshooting/">https://www.bosterbio.com/protocol-and-troubleshooting/</a>

## Anti-MTA1 Antibody (PA1483) Images



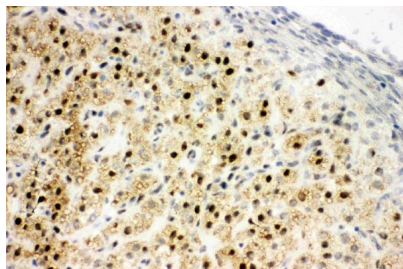
Anti-MTA1 antibody, PA1483, Western blotting

Lane 1: MCF-7 Cell Lysate

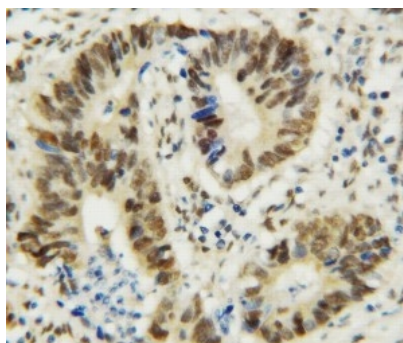
Lane 2: HELA Cell Lysate

Lane 3: JURKAT Cell Lysate

Lane 4: CEM Cell Lysate



Anti-MTA1 antibody, PA1483, IHC(F)  
IHC(F): Rat Ovary Tissue



Anti-MTA1 antibody, PA1483, IHC(P)  
IHC(P): Human Rectal Cancer Tissue

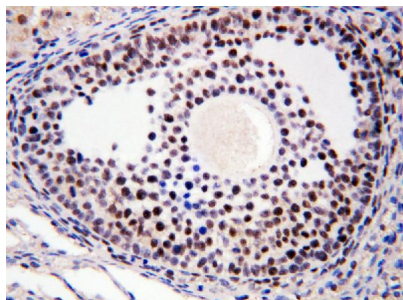


Figure 4. IHC analysis of MTA1 using anti- MTA1 antibody (PA1483).

MTA1 was detected in paraffin-embedded section of rat ovary tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 $\mu$ g/ml rabbit anti- MTA1Antibody (PA1483) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

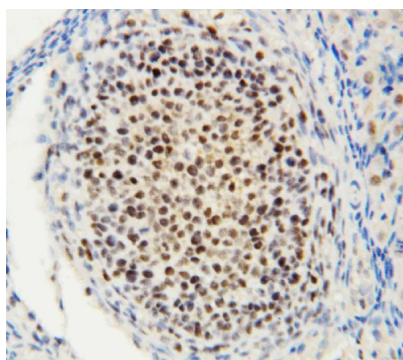
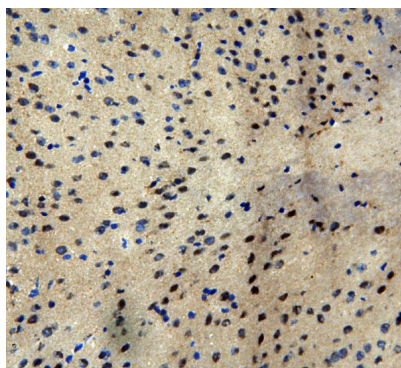


Figure 5. IHC analysis of MTA1 using anti-MTA1 antibody (PA1483).

MTA1 was detected in paraffin-embedded section of rat ovary tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 $\mu$ g/ml rabbit anti-MTA1 Antibody (PA1483) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Figure 6. IHC analysis of MTA1 using anti-MTA1 antibody (PA1483).

MTA1 was detected in frozen section of mouse brain tissues. The tissue section was blocked with 10% goat serum. The



tissue section was then incubated with 1 $\frac{1}{4}$ g/ml rabbit anti-MTA1 Antibody (PA1483) overnight at 4 $\text{^\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $\text{^\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

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