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MTF2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18277c

Specification

MTF2 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9Y483
Other Accession	Q02395, NP_001157863.1
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**289-317**

MTF2 Antibody (Center) - Additional Information

Gene ID 22823

Other Names
Metal-response element-binding transcription factor 2, Metal regulatory transcription factor 2, Metal-response element DNA-binding protein M96, Polycomb-like protein 2, hPCl2, MTF2, PCL2

Target/Specificity
This MTF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 289-317 amino acids from the Central region of human MTF2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MTF2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MTF2 Antibody (Center) - Protein Information

Name MTF2

Synonyms PCL2

Function Polycomb group (PcG) protein that specifically binds histone H3 trimethylated at 'Lys-36' (H3K36me3) and recruits the PRC2 complex, thus enhancing PRC2 H3K27me3 methylation activity (PubMed:23142980, PubMed:23228662, PubMed:31959557). Regulates the transcriptional networks during embryonic stem cell self-renewal and differentiation (By similarity). Promotes recruitment of the PRC2 complex to the inactive X chromosome in differentiating XX ES cells and PRC2 recruitment to target genes in undifferentiated ES cells (By similarity). Required to repress Hox genes by enhancing H3K27me3 methylation of the PRC2 complex (By similarity). In some conditions may act as an inhibitor of PRC2 activity: able to activate the CDKN2A gene and promote cellular senescence by suppressing the catalytic activity of the PRC2 complex locally (By similarity). Binds to the metal- regulating-element (MRE) of MT1A gene promoter (By similarity).

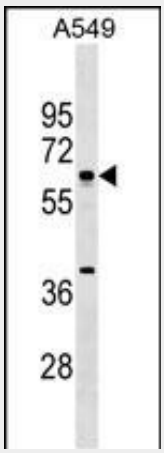
Cellular Location
Nucleus. Note=Localizes to chromatin as part of the PRC2 complex

MTF2 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MTF2 Antibody (Center) - Images



MTF2 Antibody (Center) (Cat. #AP18277c) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the MTF2 antibody detected the MTF2 protein (arrow).

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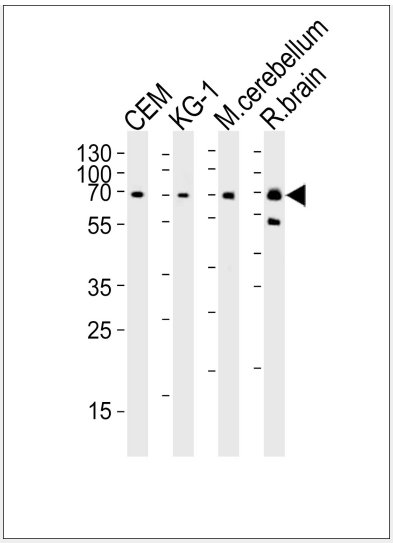
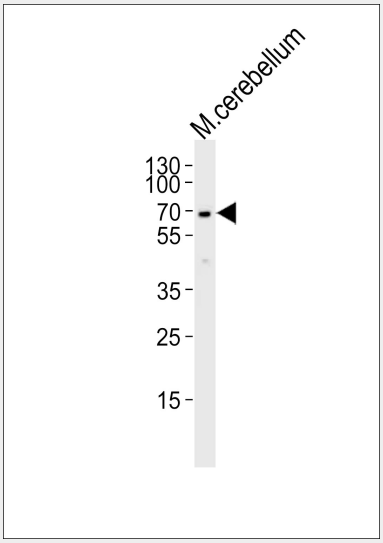


Western blot analysis of lysates from CEM, KG-1 cell line, mouse cerebellum and rat brain tissue lysate (from left to right), using MTF2 Antibody (Center)(Cat. #AP18277c). AP18277c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



Western blot analysis of lysate from mouse cerebellum tissue lysate, using MTF2 Antibody (Center)(Cat. #AP18277c). AP18277c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 35ug.

MTF2 Antibody (Center) - Background

MTF2 binds to the metal-regulating-element (MRE) of metallothionein-1A gene promoter. Binding is zinc-dependent (By similarity).

MTF2 Antibody (Center) - References

Wang, S., et al. Gene 343(1):69-78(2004)
Colland, F., et al. Genome Res. 14(7):1324-1332(2004)
Inouye, C., et al. DNA Cell Biol. 13(7):731-742(1994)