

MTF2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP18277c**Specification**

MTF2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9Y483](#)**MTF2 Antibody (Center) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MTF2 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MTF2 Antibody (Center) Blocking Peptide - Images

MTF2 Antibody (Center) Blocking Peptide - Background

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

MTF2 Antibody (Center) Blocking Peptide - 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)