

**MORC3 Blocking Peptide (Center)**  
**Synthetic peptide**  
**Catalog # BP20433c****Specification**

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**MORC3 Blocking Peptide (Center) - Product Information**Primary Accession [Q14149](#)**MORC3 Blocking Peptide (Center) - Additional Information**

Gene ID 23515

**Other Names**

MORC family CW-type zinc finger protein 3, Zinc finger CW-type coiled-coil domain protein 3, MORC3, KIAA0136, ZCWCC3

**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.

**MORC3 Blocking Peptide (Center) - Protein Information**Name MORC3 ([HGNC:23572](#))**Function**

Nuclear matrix protein which forms MORC3-NBs (nuclear bodies) via an ATP-dependent mechanism and plays a role in innate immunity by restricting different viruses through modulation of the IFN response (PubMed: [27440897](http://www.uniprot.org/citations/27440897), PubMed: [34759314](http://www.uniprot.org/citations/34759314)). Mechanistically, possesses a primary antiviral function through a MORC3-regulated element that activates IFNB1, and this function is guarded by a secondary IFN-repressing function (PubMed: [34759314](http://www.uniprot.org/citations/34759314)). Sumoylated MORC3-NBs associates with PML-NBs and recruits TP53 and SP100, thus regulating TP53 activity (PubMed: [17332504](http://www.uniprot.org/citations/17332504), PubMed: [20501696](http://www.uniprot.org/citations/20501696)). Binds RNA in vitro (PubMed: [11927593](http://www.uniprot.org/citations/11927593)). Histone methylation reader which binds to non-methylated (H3K4me0), monomethylated (H3K4me1), dimethylated (H3K4me2) and trimethylated (H3K4me3) 'Lys-4' on histone H3 (PubMed: [26933034](http://www.uniprot.org/citations/26933034)). The order of binding preference is H3K4me3 > H3K4me2 > H3K4me1 > H3K4me0 (PubMed: [26933034](http://www.uniprot.org/citations/26933034)).

target="\_blank">26933034</a>).

**Cellular Location**

Nucleus, nucleoplasm. Nucleus matrix Nucleus, PML body. Chromosome {ECO:0000250|UniProtKB:F7JB9}. Note=Also found in PML-independent nuclear bodies. Localization to nuclear bodies is ATP-dependent

**Tissue Location**

Expressed in heart, placenta, skeletal muscle, brain, pancreas, lung, liver, but not kidney

**MORC3 Blocking Peptide (Center) - Protocols**

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

- [Blocking Peptides](#)

**MORC3 Blocking Peptide (Center) - Images****MORC3 Blocking Peptide (Center) - Background**

This gene encodes a protein that localizes to the nuclear matrix. The protein also has RNA binding activity, and has a predicted coiled coil domain.

**MORC3 Blocking Peptide (Center) - References**

Nagase T., et al. DNA Res. 2:167-174(1995).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Hattori M., et al. Nature 405:311-319(2000).  
Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).