

**MMS19 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18795c****Specification**

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**MMS19 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q96T76](#)**MMS19 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 64210**Other Names**

MMS19 nucleotide excision repair protein homolog, hMMS19, MET18 homolog, MMS19-like protein, MMS19, MMS19L

**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.

**MMS19 Antibody (Center) Blocking Peptide - Protein Information****Name** MMS19 ([HGNC:13824](#))**Synonyms** MMS19L**Function**

Key component of the cytosolic iron-sulfur protein assembly (CIA) complex, a multiprotein complex that mediates the incorporation of iron-sulfur cluster into apoproteins specifically involved in DNA metabolism and genomic integrity (PubMed: <a href="http://www.uniprot.org/citations/29848660" target="\_blank">29848660</a>). In the CIA complex, MMS19 acts as an adapter between early-acting CIA components and a subset of cellular target iron-sulfur proteins such as ERCC2/XPD, FANCI and RTEL1, thereby playing a key role in nucleotide excision repair (NER), homologous recombination-mediated double-strand break DNA repair, DNA replication and RNA polymerase II (POL II) transcription (PubMed: <a href="http://www.uniprot.org/citations/22678362" target="\_blank">22678362</a>, PubMed: <a href="http://www.uniprot.org/citations/22678361" target="\_blank">22678361</a>, PubMed: <a href="http://www.uniprot.org/citations/29225034" target="\_blank">29225034</a>, PubMed: <a href="http://www.uniprot.org/citations/23585563" target="\_blank">23585563</a>). As part of the mitotic spindle-associated MMXD complex, plays a role in chromosome segregation, probably by facilitating iron-sulfur (Fe-S) cluster assembly into ERCC2/XPD (PubMed: <a href="http://www.uniprot.org/citations/20797633" target="\_blank">20797633</a>). Together with CIAO2, facilitates the transfer of Fe-S clusters to

the motor protein KIF4A, which ensures proper localization of KIF4A to mitotic machinery components to promote the progression of mitosis (PubMed:<a href="http://www.uniprot.org/citations/29848660" target="\_blank">29848660</a>). Indirectly acts as a transcriptional coactivator of estrogen receptor (ER), via its role in iron-sulfur insertion into some component of the TFIIF-machinery (PubMed:<a href="http://www.uniprot.org/citations/11279242" target="\_blank">11279242</a>).

#### **Cellular Location**

Nucleus. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=In mitosis, enriched on centrosomes during prophase, localizes to the spindle during metaphase and surrounds compacted spindle midzone microtubules during telophase.

#### **Tissue Location**

Ubiquitously expressed with higher expression in testis.

### **MMS19 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **MMS19 Antibody (Center) Blocking Peptide - Images**

### **MMS19 Antibody (Center) Blocking Peptide - Background**

MMS19 may play a role in nucleotide excision repair (NER) and RNA polymerase II (POL II) transcription by interacting with ERCC2/XPD and ERCC3/XPB helicases, both subunits of NER-transcription factor TFIIF. May also function as a transcriptional coactivator of estrogen receptor (ER). May be involved in regulation of ER activity by bridging TFIIF with ER or may facilitate TFIIF-mediated phosphorylation of ER in specific promoters and cell types.

### **MMS19 Antibody (Center) Blocking Peptide - References**

Ito, S., et al. Mol. Cell 39(4):632-640(2010)Briggs, F.B., et al. Am. J. Epidemiol. 172(2):217-224(2010)McWilliams, R.R., et al. Cancer Epidemiol. Biomarkers Prev. 18(4):1295-1302(2009)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Hatfield, M.D., et al. DNA Repair (Amst.) 5(8):914-924(2006)