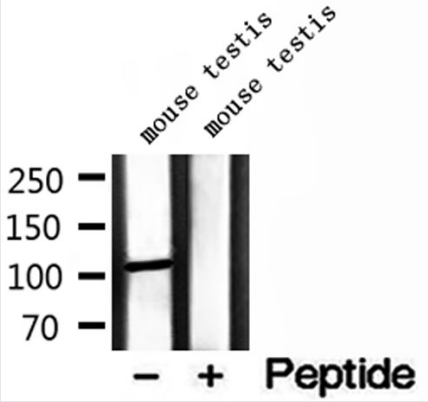
MMS19 Antibody – Rabbit Polyclonal

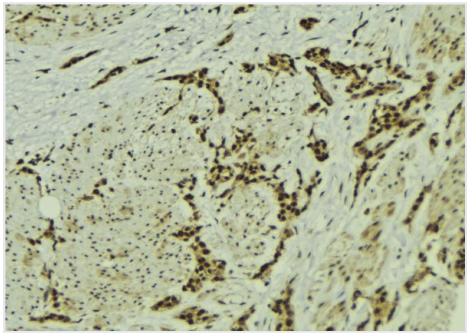
PRODUCT OVERVIEW

Product Name	MMS19, Polyclonal Antibody
Full Product Name	MMS19 Antibody
Product Gene Name	anti-MMS19 antibody
Product Synonym Names	hMMS19; homolog of yeast MMS19; MET18; MET18 homolog; MET18MMS19 nucleotide excision repair homolog (S. cerevisiae); mms19; MMS19 nucleotide excision repair protein homolog; MMS19 nucleotide excision repair, S. cerevisiae, homolog of; MMS19-like (MET18 homolog, S. cerevisiae); MMS19-like protein; MMS19_HUMAN; MMS19L
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	MMS19 antibody detects endogenous levels of MMS19.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	MMS19 peptide (MBS9620917) is used for blocking the activity of MMS19 antibody (MBS9603440)
Molecular Weight	Observed: 103-113 kDa Predicted: 114 kDa
3D Structure	ModBase 3D Structure for Q96T76
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human MMS19.
Subcellular Location	Nucleus. Cytoplasm > Cytoskeleton > Spindle.
Tissue Specificity	Ubiquitously expressed with higher expression in testis.
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (100%), Zebrafish (91%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MMS19 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MMS19 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200

Related Product Information for anti-MMS19 antibody	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. 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, FANCJ 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:22678362, PubMed:22678361, PubMed:29225034). As part of the mitotic spindle-associated MMXD complex, plays a role in chromosome segregation, probably by facilitating iron-sulfur cluster assembly into ERCC2/XPD (PubMed:20797633). Indirectly acts as a transcriptional coactivator of estrogen receptor (ER), via its role in iron-sulfur insertion into some component of the TFIIH-machinery (PubMed:11279242). Subunit Structure: Component of the CIA complex. Component of the MMXD complex, composed of CIAO1, ERCC2, FAM96B, MMS19 and SLC25A5. Interacts with FAM96B; the interaction is direct. Interacts with ERCC2/XPD; the interaction is direct. Interacts with ERCC3/XPB and NCOA3/RAC3. Interacts with RTEL1; the interaction mediates the association of RTEL1 with the CIA complex. Post-translational Modifications: Ubiquitinated; undergoes 'Lys-48'-linked polyubiquitination by MAGEF1-NSMCE1 ubiquitin ligase complex leading to proteasomal degradation. Similarity: Belongs to the MET18/MMS19 family.
Other Notes	Small volumes of anti-MMS19 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MMS19 purchase	MBS9603440 is an antibody targeting MMS19. Also known as MMS19 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-MMS19 antibody
Western blot analysis of extracts of mouse testis tissue, using MMS19 antibody.



Immunohistochemistry (IHC) of anti-MMS19 antibody
MBS9603440 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMS19. It may not necessarily be applicable to this product.

NCBI GI #	574957085
NCBI GeneID	64210
NCBI Accession #	NP_001276332.1
UniProt Primary Accession #	Q96T76
UniProt Secondary Accession #	Q17RZ8; Q5T455; Q66K82; Q7L4W8; Q969Z1; B0QZ75; B3KPE5; B4DQX2; B4E2I3; D3DR55; F8W9Y2
UniProt Related Accession #	Q96T76
GenBank Nucleotide #	NM_001289403.1
NCBI Official Full Name	MMS19 nucleotide excision repair protein homolog isoform 2
NCBI Official Synonym Full Names	MMS19 homolog, cytosolic iron-sulfur assembly component
NCBI Official Symbol	MMS19

NCBI Official Synonym Symbols	CIAO4; MET18; MMS19L; hMMS19
UniProt Protein Name	MMS19 nucleotide excision repair protein homolog
UniProt Synonym Protein Names	MET18 homolog; MMS19-like protein
Protein Family	DNA repair/transcription protein
UniProt Gene Name	MMS19
UniProt Synonym Gene Names	hMMS19
NCBI Protein Information	MMS19 nucleotide excision repair protein homolog
UniProt Comments for MMS19	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. 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, FANCJ 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:22678362, PubMed:22678361, PubMed:29225034, PubMed:23585563). As part of the mitotic spindle-associated MMXD complex, plays a role in chromosome segregation, probably by facilitating iron-sulfur cluster assembly into ERCC2/XPD (PubMed:20797633). Indirectly acts as a transcriptional coactivator of estrogen receptor (ER), via its role in iron-sulfur insertion into some component of the TFIIH-machinery (PubMed:11279242).
Research Articles on MMS19	**1.** findings suggest that MMS19 plays an essential role in maintaining mitochondrial genome stability
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