

Store at
-20C
#90637**MMS19 (D5J8J) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	100	Rabbit IgG	#Q96T76	64210

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

MMS19 (D5J8J) Rabbit mAb recognizes endogenous levels of total MMS19 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu892 of human MMS19 protein.

Background

Iron-sulfur (Fe-S) clusters (ISC) are cofactors for many proteins that display a wide range of biological functions, such as DNA maintenance, transcription, translation, cellular metabolism, electron transport, and oxidative phosphorylation (1). While structurally simple, the synthesis and insertion of ISC into Fe-S proteins are complex processes that involve many different proteins. MMS19 (methyl-methanesulfonate sensitivity 19) is a key component of the cytosolic Fe-S protein assembly complex, acting as an adaptor for a subset of Fe-S proteins including XPD and FANCI, therefore playing an important role in DNA repair and transcription (2-4). MMS19 may also function as a coactivator for the estrogen receptor (5). In addition it has been reported that MMS19 is in a complex that is localized to the mitotic spindle and is required for proper chromosome segregation during mitosis (6).

Background References

1. Wang, J. and Pantopoulos, K. (2011) *Biochem J* 434, 365-81.
2. Stehling, O. et al. (2012) *Science* 337, 195-9.
3. Gari, K. et al. (2012) *Science* 337, 243-5.
4. Vashisht, A.A. et al. (2015) *J Biol Chem* 290, 14218-25.
5. Wu, X. et al. (2001) *J Biol Chem* 276, 23962-8.
6. Ito, S. et al. (2010) *Mol Cell* 39, 632-40.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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